

## ภาคผนวก ค-1

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ใบรายงานผลการตรวจวัด  
คุณภาพอากาศในบรรยากาศและระดับเสียงโดยทั่วไป

# ANALYSIS REPORT

Analysis No. : Lab-AB 157/2566  
Job No. : PCL 1540/66  
Report Date : December 8, 2023

Customer Name : บริษัท ไอจี พอร์จ (ไทยแลนด์) จำกัด  
Address : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขาม อำเภอศรีราชา จังหวัดชลบุรี 20110  
Sampling Source : Ambient Air Quality  
Sampling Point : บริเวณวัดเขาชีธรรมนิมิต  
Sampling Date/Time : November 13-20, 2023/04.00 p.m. Received Date : November 21, 2023  
GPS. Coordinate : UTM 47P 0721580 E, 1451033 N Analytical Date : November 21, 2023  
Sampling Method : US. EPA. 40 CFR 50 Sampling Condition : Good  
Method of Analysis : High-Volume Air Sampler/Gravimetric Method

Item	Measure Date	Unit	Result
			(ค่าเฉลี่ยของขนาดไม่เกิน 100 ไมครอน (TSP) 24-Hour Average
1.	13-14/11/23	mg/m <sup>3</sup>	0.059
2.	14-15/11/23		0.060
3.	15-16/11/23		0.063
4.	16-17/11/23		0.052
5.	17-18/11/23		0.054
6.	18-19/11/23		0.065
7.	19-20/11/23		0.058
Standard <sup>1/</sup>			≤0.33

Remark : 1. <sup>1/</sup> ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 24 (พ.ศ. 2547) เรื่อง กำหนดมาตรฐานคุณภาพอากาศในบรรยากาศโดยทั่วไป (ลงวันที่ 9 สิงหาคม พ.ศ. 2547)  
2. สภาพอากาศ : ปกติ





PACIFIC

LABORATORY CO., LTD.

Pacific Laboratory Co., Ltd.

14/5358 Moo 14 Tambol Bang Bua Thong

Amphoe Bang Bua Thong, Nonthaburi 11110

Tel. : 0-2045-2446-7 Fax 0-2045-3991

## ANALYSIS REPORT

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Address : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขาม อำเภอศรีราชา จังหวัดชลบุรี 20110  
Sampling Source : Ambient Air Quality  
Sampling Point : บริเวณโรงพยาบาลส่งเสริมสุขภาพตำบลบ้านหนองค้อ  
Sampling Date/Time : November 13-20, 2023/03.30 p.m. Received Date : November 21, 2023  
GPS. Coordinate : UTM 47P 0719951 E, 1452018 N Analytical Date : November 21, 2023  
Sampling Method : US. EPA. 40 CFR 50 Sampling Condition : Good  
Method of Analysis : High-Volume Air Sampler/Gravimetric Method

Item	Measure Date	Unit	Result
			ฝุ่นละอองขนาดไม่เกิน 100 ไมครอน (TSP) 24 Hours Average
1.	13-14/11/23	mg/m <sup>3</sup>	0.070
2.	14-15/11/23		0.071
3.	15-16/11/23		0.074
4.	16-17/11/23		0.068
5.	17-18/11/23		0.077
6.	18-19/11/23		0.079
7.	19-20/11/23		0.073
Standard <sup>1/</sup>			≤0.33

Remark : 1. <sup>1/</sup> ประกาศคณะกรรมการสิ่งแวดล้อมแห่งชาติ ฉบับที่ 24 (พ.ศ. 2547) เรื่อง กำหนดมาตรฐานคุณภาพอากาศในบรรยากาศโดยทั่วไป (ลงวันที่ 9 สิงหาคม พ.ศ. 2547)  
2. สภาพอากาศ : ปกติ

LABORATORY CO., LTD.  
[Signature]  
Lab. Supervisor



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Tel. : 0-2045-2446-7 Fax. : 0-2045-3991

## ANALYSIS REPORT

Analysis No. : NH 236/2566  
 Job No. : PCL 1540/66  
 Report Date : November 22, 2023

Customer Name : บริษัท โอจี ฟอรัจ (ไทยแลนด์) จำกัด  
 Address : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขาม อำเภอศรีราชา จังหวัดชลบุรี 20110  
 Sampling Source : Community Noise  
 Sampling Location : ทิศเหนือ (Slope area)  
 Measured Date : November 13-14, 2023  
 Measured Instrument : Sound Level Meter ACO Type 6226 Serial Number 200042

Interval Time	Noise Level (dBA)		
	Leq	Lmax	L90
02:00 p.m. – 03:00 p.m.	63.8	84.8	60.2
03:00 p.m. – 04:00 p.m.	61.4	80.0	57.3
04:00 p.m. – 05:00 p.m.	62.7	80.1	57.3
05:00 p.m. – 06:00 p.m.	66.7	89.3	59.9
06:00 p.m. – 07:00 p.m.	62.5	94.0	56.1
07:00 p.m. – 08:00 p.m.	66.3	88.2	60.6
08:00 p.m. – 09:00 p.m.	70.8	104.0	60.3
09:00 p.m. – 10:00 p.m.	61.6	80.6	57.5
10:00 p.m. – 11:00 p.m.	61.8	88.3	57.2
11:00 p.m. – 00:00 p.m.	60.2	78.5	57.0
00:00 p.m. – 01:00 a.m.	56.2	72.0	54.6
01:00 a.m. – 02:00 a.m.	60.3	82.3	57.0
02:00 a.m. – 03:00 a.m.	59.8	77.2	57.2
03:00 a.m. – 04:00 a.m.	59.9	79.6	56.7
04:00 a.m. – 05:00 a.m.	61.7	91.2	55.9
05:00 a.m. – 06:00 a.m.	65.8	93.4	56.7
06:00 a.m. – 07:00 a.m.	62.2	83.2	57.3
07:00 a.m. – 08:00 a.m.	67.4	88.9	63.8
08:00 a.m. – 09:00 a.m.	67.7	96.6	59.7
09:00 a.m. – 10:00 a.m.	61.6	77.3	57.3
10:00 a.m. – 11:00 a.m.	61.6	85.0	57.3
11:00 a.m. – 12:00 a.m.	61.9	89.9	56.5
12:00 a.m. – 01:00 p.m.	61.4	85.3	57.5
01:00 p.m. – 02:00 p.m.	61.7	78.1	57.5
24 Hours Measured	64.1	104.0	58.4
Standard <sup>1/</sup>	≤70	≤115	-
Evaluation	pass	pass	-
Ldn	68.6	-	-

Remark : 1. <sup>1/</sup> Notification of Ministry of Industry on the Prescription of the Values of Annoyance Sound Level and the sound Level caused by Engaging in a Factory Business B.E. 2548 (Dated 27 December B.E. 2548)

PACIFIC LABORATORY CO., LTD.  
 Lab. Supervisor



# ANALYSIS REPORT

Analysis No. : NH 236/2566  
Job No. : PCL 1540/66  
Report Date : November 22, 2023

Customer Name : บริษัท โอจี ฟอรัจ (ไทยแลนด์) จำกัด  
Address : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขาม อำเภอศรีราชา จังหวัดชลบุรี 20110  
Sampling Source : Community Noise  
Sampling Location : ทิศเหนือ (Slope area)  
Measured Date : November 14-15, 2023  
Measured Instrument : Sound Level Meter ACO Type 6226 Serial Number 200042

Interval Time	Noise Level (dBA)		
	Leq	Lmax	L90
02:00 p.m. - 03:00 p.m.	58.5	77.7	54.3
03:00 p.m. - 04:00 p.m.	59.1	93.0	49.0
04:00 p.m. - 05:00 p.m.	61.5	92.3	49.1
05:00 p.m. - 06:00 p.m.	62.4	87.0	50.1
06:00 p.m. - 07:00 p.m.	57.2	86.3	49.7
07:00 p.m. - 08:00 p.m.	62.5	88.7	50.0
08:00 p.m. - 09:00 p.m.	62.2	86.8	49.4
09:00 p.m. - 10:00 p.m.	53.4	74.1	48.4
10:00 p.m. - 11:00 p.m.	53.7	79.3	48.1
11:00 p.m. - 00:00 p.m.	59.2	82.2	47.2
00:00 p.m. - 01:00 a.m.	53.7	78.1	46.9
01:00 a.m. - 02:00 a.m.	47.7	64.3	46.7
02:00 a.m. - 03:00 a.m.	50.6	74.3	46.7
03:00 a.m. - 04:00 a.m.	48.6	66.0	46.8
04:00 a.m. - 05:00 a.m.	53.3	81.9	46.3
05:00 a.m. - 06:00 a.m.	53.7	81.9	47.0
06:00 a.m. - 07:00 a.m.	64.3	89.7	49.3
07:00 a.m. - 08:00 a.m.	68.5	92.8	50.8
08:00 a.m. - 09:00 a.m.	61.5	85.1	49.7
09:00 a.m. - 10:00 a.m.	61.1	86.9	49.8
10:00 a.m. - 11:00 a.m.	60.9	88.5	48.9
11:00 a.m. - 12:00 a.m.	57.3	84.4	48.6
12:00 a.m. - 01:00 p.m.	58.8	92.0	48.4
01:00 p.m. - 02:00 p.m.	59.7	90.9	48.7
24 Hours Measured	60.5	93.0	49.1
Standard <sup>1/</sup>	≤70	≤115	-
Evaluation	pass	pass	-
Ldn	62.9	-	-

Remark : 1. <sup>1/</sup> Notification of Ministry of Industry on the Prescription of the Values of Annoyance Sound Level and the sound Level caused by Engaging in a Factory Business B.E. 2548 (Dated 27 December B.E. 2548)



Lab. Supervisor

# ANALYSIS REPORT

Analysis No. : NH 236/2566  
Job No. : PCL 1540/66  
Report Date : November 22, 2023

Customer Name : บริษัท โอจี ฟอรัจ (ไทยแลนด์) จำกัด  
Address : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขาม อำเภอศรีราชา จังหวัดชลบุรี 20110  
Sampling Source : Community Noise  
Sampling Location : ทิศเหนือ (Slope area)  
Measured Date : November 15-16, 2023  
Measured Instrument : Sound Level Meter ACO Type 6226 Serial Number 200042

Interval Time	Noise Level (dBA)		
	Leq	Lmax	L90
02:00 p.m. - 03:00 p.m.	59.6	82.7	55.5
03:00 p.m. - 04:00 p.m.	60.4	81.0	56.0
04:00 p.m. - 05:00 p.m.	62.0	89.7	57.0
05:00 p.m. - 06:00 p.m.	65.2	89.3	57.5
06:00 p.m. - 07:00 p.m.	61.5	86.0	55.8
07:00 p.m. - 08:00 p.m.	66.2	89.3	60.2
08:00 p.m. - 09:00 p.m.	67.9	96.1	60.1
09:00 p.m. - 10:00 p.m.	61.6	77.9	57.2
10:00 p.m. - 11:00 p.m.	61.5	88.5	56.5
11:00 p.m. - 00:00 p.m.	59.1	82.1	55.7
00:00 p.m. - 01:00 a.m.	56.0	73.9	54.1
01:00 a.m. - 02:00 a.m.	59.3	75.0	56.1
02:00 a.m. - 03:00 a.m.	58.4	76.0	55.8
03:00 a.m. - 04:00 a.m.	57.0	73.3	55.0
04:00 a.m. - 05:00 a.m.	58.5	81.9	54.4
05:00 a.m. - 06:00 a.m.	62.8	92.3	55.1
06:00 a.m. - 07:00 a.m.	62.7	90.9	56.4
07:00 a.m. - 08:00 a.m.	67.5	88.4	64.1
08:00 a.m. - 09:00 a.m.	66.9	96.3	59.3
09:00 a.m. - 10:00 a.m.	60.3	79.2	56.4
10:00 a.m. - 11:00 a.m.	60.5	80.4	56.6
11:00 a.m. - 12:00 a.m.	60.7	82.7	55.9
12:00 a.m. - 01:00 p.m.	60.8	88.9	54.8
01:00 p.m. - 02:00 p.m.	60.9	80.7	56.5
24 Hours Measured	62.8	96.3	57.5
Standard <sup>1/</sup>	≤70	≤115	-
Evaluation	pass	pass	-
Ldn	67.1	-	-

Remark : 1. <sup>1/</sup> Notification of Ministry of Industry on the Prescription of the Values of Annoyance Sound Level and the sound Level caused by Engaging in a Factory Business B.E. 2548 (Dated 27 December B.E. 2548)



# ANALYSIS REPORT

Analysis No. : NH 236/2566  
Job No. : PCL 1540/66  
Report Date : November 22, 2023

Customer Name : บริษัท ไอจี พอร์จ (ไทยแลนด์) จำกัด  
Address : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขาม อำเภอศรีราชา จังหวัดชลบุรี 20110  
Sampling Source : Community Noise  
Sampling Location : ทิศเหนือ (Slope area)  
Measured Date : November 16-17, 2023  
Measured Instrument : Sound Level Meter ACO Type 6226 Serial Number 200042

Interval Time	Noise Level (dBA)		
	Leq	Lmax	L90
02:00 p.m. – 03:00 p.m.	60.5	87.4	56.3
03:00 p.m. – 04:00 p.m.	60.7	83.3	55.9
04:00 p.m. – 05:00 p.m.	61.4	80.6	56.5
05:00 p.m. – 06:00 p.m.	66.8	94.5	57.8
06:00 p.m. – 07:00 p.m.	60.2	82.1	54.8
07:00 p.m. – 08:00 p.m.	65.4	91.2	61.1
08:00 p.m. – 09:00 p.m.	67.3	96.0	59.5
09:00 p.m. – 10:00 p.m.	62.9	89.8	56.9
10:00 p.m. – 11:00 p.m.	61.7	85.9	56.5
11:00 p.m. – 00:00 p.m.	59.8	82.9	56.2
00:00 p.m. – 01:00 a.m.	57.8	77.3	54.4
01:00 a.m. – 02:00 a.m.	59.4	76.7	56.2
02:00 a.m. – 03:00 a.m.	59.2	78.6	55.9
03:00 a.m. – 04:00 a.m.	58.6	78.4	55.5
04:00 a.m. – 05:00 a.m.	58.2	81.4	54.8
05:00 a.m. – 06:00 a.m.	63.6	92.9	55.4
06:00 a.m. – 07:00 a.m.	61.9	81.7	56.0
07:00 a.m. – 08:00 a.m.	67.6	89.9	64.4
08:00 a.m. – 09:00 a.m.	67.4	96.6	60.2
09:00 a.m. – 10:00 a.m.	61.4	76.7	57.4
10:00 a.m. – 11:00 a.m.	61.3	76.8	56.8
11:00 a.m. – 12:00 a.m.	61.8	86.7	56.0
12:00 a.m. – 01:00 p.m.	61.1	86.7	54.6
01:00 p.m. – 02:00 p.m.	63.9	92.2	56.4
24 Hours Measured	63.1	96.6	57.7
Standard <sup>1/</sup>	≤70	≤115	-
Evaluation	pass	pass	-
Ldn	67.7	-	-

Remark : 1. <sup>1/</sup> Notification of Ministry of Industry on the Prescription of the Values of Annoyance Sound Level and the sound Level caused by Engaging in a Factory Business B.E. 2548 (Dated 27 December B.E. 2548)

PACIFIC LABORATORY CO., LTD.  
Lab. Supervisor



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Sampling Source : Community Noise  
Sampling Location : ทิศเหนือ (Slope area)  
Measured Date : November 17-18, 2023  
Measured Instrument : Sound Level Meter ACO Type 6226 Serial Number 200042

Interval Time	Noise Level (dBA)		
	Leq	Lmax	L90
02:00 p.m. – 03:00 p.m.	62.0	86.0	56.9
03:00 p.m. – 04:00 p.m.	60.8	78.0	56.5
04:00 p.m. – 05:00 p.m.	60.6	83.6	56.1
05:00 p.m. – 06:00 p.m.	66.2	92.0	58.0
06:00 p.m. – 07:00 p.m.	63.1	88.7	54.8
07:00 p.m. – 08:00 p.m.	66.5	92.6	59.1
08:00 p.m. – 09:00 p.m.	66.7	91.1	59.4
09:00 p.m. – 10:00 p.m.	60.5	83.5	56.5
10:00 p.m. – 11:00 p.m.	60.2	78.6	56.4
11:00 p.m. – 00:00 p.m.	59.1	77.0	55.5
00:00 p.m. – 01:00 a.m.	57.3	75.4	54.5
01:00 a.m. – 02:00 a.m.	59.4	76.9	55.5
02:00 a.m. – 03:00 a.m.	59.6	77.8	55.9
03:00 a.m. – 04:00 a.m.	59.4	79.0	55.8
04:00 a.m. – 05:00 a.m.	59.3	77.0	55.4
05:00 a.m. – 06:00 a.m.	64.9	93.6	56.3
06:00 a.m. – 07:00 a.m.	65.7	96.8	56.6
07:00 a.m. – 08:00 a.m.	63.8	83.7	58.0
08:00 a.m. – 09:00 a.m.	60.6	82.5	54.4
09:00 a.m. – 10:00 a.m.	60.7	83.3	55.8
10:00 a.m. – 11:00 a.m.	61.0	83.3	56.2
11:00 a.m. – 12:00 a.m.	60.5	82.1	55.2
12:00 a.m. – 01:00 p.m.	60.2	81.7	53.6
01:00 p.m. – 02:00 p.m.	62.4	82.3	58.5
24 Hours Measured	62.5	96.8	56.5
Standard <sup>1/</sup>	≤70	≤115	-
Evaluation	pass	pass	-
Ldn	67.5	-	-

Remark : 1. <sup>1/</sup> Notification of Ministry of Industry on the Prescription of the Values of Annoyance Sound Level and the sound Level caused by Engaging in a Factory Business B.E. 2548 (Dated 27 December B.E. 2548)



# ANALYSIS REPORT

Analysis No. : NH 236/2566  
Job No. : PCL 1540/66  
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Address : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขาม อำเภอสรรีราช จังหวัดชลบุรี 20110  
Sampling Source : Community Noise  
Sampling Location : ทิศเหนือ (Slope area)  
Measured Date : November 18-19, 2023  
Measured Instrument : Sound Level Meter ACO Type 6226 Serial Number 200042

Interval Time	Noise Level (dBA)		
	Leq	Lmax	L90
02:00 p.m. - 03:00 p.m.	59.7	79.3	56.8
03:00 p.m. - 04:00 p.m.	59.3	83.4	55.0
04:00 p.m. - 05:00 p.m.	61.6	85.4	56.5
05:00 p.m. - 06:00 p.m.	64.0	89.9	56.2
06:00 p.m. - 07:00 p.m.	58.9	82.5	54.6
07:00 p.m. - 08:00 p.m.	64.1	83.7	60.6
08:00 p.m. - 09:00 p.m.	66.1	96.2	57.8
09:00 p.m. - 10:00 p.m.	57.5	82.2	54.0
10:00 p.m. - 11:00 p.m.	57.2	79.5	53.8
11:00 p.m. - 00:00 p.m.	55.0	75.2	53.2
00:00 p.m. - 01:00 a.m.	54.7	69.3	53.3
01:00 a.m. - 02:00 a.m.	55.5	82.4	53.2
02:00 a.m. - 03:00 a.m.	56.4	74.4	53.6
03:00 a.m. - 04:00 a.m.	55.3	75.3	53.1
04:00 a.m. - 05:00 a.m.	60.1	91.6	53.4
05:00 a.m. - 06:00 a.m.	66.9	98.7	54.0
06:00 a.m. - 07:00 a.m.	59.3	85.7	54.7
07:00 a.m. - 08:00 a.m.	65.6	94.6	59.3
08:00 a.m. - 09:00 a.m.	65.1	94.6	57.6
09:00 a.m. - 10:00 a.m.	61.9	79.9	55.2
10:00 a.m. - 11:00 a.m.	57.4	84.1	53.2
11:00 a.m. - 12:00 a.m.	57.8	78.7	52.5
12:00 a.m. - 01:00 p.m.	58.7	87.2	52.1
01:00 p.m. - 02:00 p.m.	55.6	72.1	51.8
24 Hours Measured	61.4	98.7	55.5
Standard <sup>V</sup>	≤70	≤115	-
Evaluation	pass	pass	-
Ldn	66.7	-	-

Remark : 1. <sup>V</sup> Notification of Ministry of Industry on the Prescription of the Values of Annoyance Sound Level and the sound Level caused by Engaging in a Factory Business B.E. 2548 (Dated 27 December B.E. 2548)





## ANALYSIS REPORT

Analysis No. : NH 236/2566  
Job No. : PCL 1540/66  
Report Date : November 22, 2023

Customer Name : บริษัท โอจี ฟอรัจ (ไทยแลนด์) จำกัด  
Address : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขาม อำเภอศรีราชา จังหวัดชลบุรี 20110  
Sampling Source : Community Noise  
Sampling Location : ทิศเหนือ (Slope area)  
Measured Date : November 19-20, 2023  
Measured Instrument : Sound Level Meter ACO Type 6226 Serial Number 200042

Interval Time	Noise Level (dBA)		
	Leq	L <sub>max</sub>	L <sub>90</sub>
02:00 p.m. – 03:00 p.m.	57.6	87.8	52.1
03:00 p.m. – 04:00 p.m.	56.0	72.3	52.5
04:00 p.m. – 05:00 p.m.	59.0	89.4	52.8
05:00 p.m. – 06:00 p.m.	61.1	90.2	52.5
06:00 p.m. – 07:00 p.m.	56.7	74.7	52.3
07:00 p.m. – 08:00 p.m.	64.4	96.2	53.5
08:00 p.m. – 09:00 p.m.	60.1	83.7	52.8
09:00 p.m. – 10:00 p.m.	55.0	77.2	52.4
10:00 p.m. – 11:00 p.m.	54.1	75.3	52.3
11:00 p.m. – 00:00 p.m.	53.6	73.8	51.9
00:00 p.m. – 01:00 a.m.	53.0	67.7	51.5
01:00 a.m. – 02:00 a.m.	53.3	76.1	51.4
02:00 a.m. – 03:00 a.m.	54.4	82.0	52.0
03:00 a.m. – 04:00 a.m.	53.2	66.4	51.8
04:00 a.m. – 05:00 a.m.	55.0	71.4	52.7
05:00 a.m. – 06:00 a.m.	57.8	80.5	53.3
06:00 a.m. – 07:00 a.m.	61.8	82.0	55.2
07:00 a.m. – 08:00 a.m.	66.3	87.9	60.7
08:00 a.m. – 09:00 a.m.	64.9	95.7	56.3
09:00 a.m. – 10:00 a.m.	61.1	80.2	56.2
10:00 a.m. – 11:00 a.m.	60.9	75.8	56.5
11:00 a.m. – 12:00 a.m.	60.9	82.2	56.1
12:00 a.m. – 01:00 p.m.	60.4	82.4	55.0
01:00 p.m. – 02:00 p.m.	60.9	87.8	54.5
24 Hours Measured	60.2	96.2	54.4
Standard <sup>1/</sup>	≤70	≤115	-
Evaluation	pass	pass	-
L <sub>dn</sub>	63.0	-	-

Remark : 1. <sup>1/</sup> Notification of Ministry of Industry on the Prescription of the Values of Annoyance Sound Level and the sound Level caused by Engaging in a Factory Business B.E. 2548 (Dated 27 December B.E. 2548)

PACIFIC LABORATORY CO., LTD.  
Lab. Supervisor

# ANALYSIS REPORT

Analysis No. : NH 236/2566  
Job No. : PCL 1540/66  
Report Date : November 22, 2023

Customer Name : บริษัท โอจี ฟอรัจ (ไทยแลนด์) จำกัด  
Address : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขาม อำเภอศรีราชา จังหวัดชลบุรี 20110  
Sampling Source : Community Noise  
Sampling Location : ทิศใต้ (บริเวณหลังลาน Emer)  
Measured Date : November 13-14, 2023  
Measured Instrument : Sound Level Meter ACO Type 6226 Serial Number 180048

Interval Time	Noise Level (dBA)		
	Leq	Lmax	L90
02:00 p.m. - 03:00 p.m.	55.6	81.3	49.4
03:00 p.m. - 04:00 p.m.	50.7	65.9	48.4
04:00 p.m. - 05:00 p.m.	50.9	67.9	48.1
05:00 p.m. - 06:00 p.m.	50.7	75.8	47.5
06:00 p.m. - 07:00 p.m.	53.7	71.3	50.3
07:00 p.m. - 08:00 p.m.	55.6	63.5	50.6
08:00 p.m. - 09:00 p.m.	55.5	79.2	51.5
09:00 p.m. - 10:00 p.m.	53.9	79.2	51.0
10:00 p.m. - 11:00 p.m.	52.3	65.3	50.6
11:00 p.m. - 00:00 p.m.	51.9	67.3	50.3
00:00 p.m. - 01:00 a.m.	48.8	55.7	47.7
01:00 a.m. - 02:00 a.m.	52.4	63.1	50.6
02:00 a.m. - 03:00 a.m.	53.2	66.7	51.4
03:00 a.m. - 04:00 a.m.	52.8	72.1	51.2
04:00 a.m. - 05:00 a.m.	52.8	72.1	51.1
05:00 a.m. - 06:00 a.m.	52.8	73.8	50.9
06:00 a.m. - 07:00 a.m.	53.7	71.0	51.1
07:00 a.m. - 08:00 a.m.	53.7	80.1	51.1
08:00 a.m. - 09:00 a.m.	54.5	78.1	51.4
09:00 a.m. - 10:00 a.m.	54.9	72.3	51.9
10:00 a.m. - 11:00 a.m.	53.2	69.1	49.8
11:00 a.m. - 12:00 a.m.	50.8	63.8	48.1
12:00 a.m. - 01:00 p.m.	51.6	66.4	47.6
01:00 p.m. - 02:00 p.m.	53.0	73.6	50.1
24 Hours Measured	53.2	81.3	50.3
Standard <sup>1/</sup>	≤70	≤115	-
Evaluation	pass	pass	-
Ldn	59.1	-	-

Remark : 1. <sup>1/</sup> Notification of Ministry of Industry on the Prescription of the Values of Annoyance Sound Level and the sound Level caused by Engaging in a Factory Business B.E. 2548 (Dated 27 December B.E. 2548)



# ANALYSIS REPORT

Analysis No. : NH 236/2566  
Job No. : PCL 1540/66  
Report Date : November 22, 2023

Customer Name : บริษัท ไอจี พอร์จ (ไทยแลนด์) จำกัด  
Address : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขาม อำเภอศรีราชา จังหวัดชลบุรี 20110  
Sampling Source : Community Noise  
Sampling Location : ทิศใต้ (บริเวณหลังลาน Emer)  
Measured Date : November 14-15, 2023  
Measured Instrument : Sound Level Meter ACO Type 6226 Serial Number 180048

Interval Time	Noise Level (dBA)		
	Leq	Lmax	L90
02:00 p.m. - 03:00 p.m.	52.4	77.2	48.9
03:00 p.m. - 04:00 p.m.	52.7	79.5	49.1
04:00 p.m. - 05:00 p.m.	53.4	79.5	49.5
05:00 p.m. - 06:00 p.m.	62.7	84.1	49.7
06:00 p.m. - 07:00 p.m.	52.4	69.3	49.9
07:00 p.m. - 08:00 p.m.	51.5	67.9	49.4
08:00 p.m. - 09:00 p.m.	51.6	70.9	49.5
09:00 p.m. - 10:00 p.m.	52.2	66.0	50.2
10:00 p.m. - 11:00 p.m.	52.1	67.9	50.4
11:00 p.m. - 00:00 p.m.	51.9	73.6	50.0
00:00 p.m. - 01:00 a.m.	48.9	58.5	47.7
01:00 a.m. - 02:00 a.m.	51.1	63.3	49.2
02:00 a.m. - 03:00 a.m.	50.7	65.1	49.1
03:00 a.m. - 04:00 a.m.	50.8	62.9	49.3
04:00 a.m. - 05:00 a.m.	52.9	74.4	50.6
05:00 a.m. - 06:00 a.m.	53.2	73.6	50.6
06:00 a.m. - 07:00 a.m.	54.4	74.2	52.6
07:00 a.m. - 08:00 a.m.	54.0	69.1	51.3
08:00 a.m. - 09:00 a.m.	53.4	73.5	50.7
09:00 a.m. - 10:00 a.m.	51.7	69.6	48.4
10:00 a.m. - 11:00 a.m.	50.7	66.4	48.0
11:00 a.m. - 12:00 a.m.	49.6	72.0	46.3
12:00 a.m. - 01:00 p.m.	47.8	65.5	45.6
01:00 p.m. - 02:00 p.m.	52.1	75.0	49.1
24 Hours Measured	53.6	84.1	49.6
Standard <sup>1/</sup>	≤70	≤115	-
Evaluation	pass	pass	-
Ldn	58.6	-	-

Remark : 1. <sup>1/</sup> Notification of Ministry of Industry on the Prescription of the Values of Annoyance Sound Level and the sound Level caused by Engaging in a Factory Business B.E. 2548 (Dated 27 December B.E. 2548)





## ANALYSIS REPORT

Analysis No. : NH 236/2566  
Job No. : PCL 1540/66  
Report Date : November 22, 2023

Customer Name : บริษัท โอจี ฟอรัจ (ไทยแลนด์) จำกัด  
Address : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขาม อำเภอสรีราชา จังหวัดชลบุรี 20110  
Sampling Source : Community Noise  
Sampling Location : ทิศใต้ (บริเวณหลังลาน Emer)  
Measured Date : November 15-16, 2023  
Measured Instrument : Sound Level Meter ACO Type 6226 Serial Number 180048

Interval Time	Noise Level (dBA)		
	Leq	Lmax	L90
02:00 p.m. – 03:00 p.m.	51.6	86.0	47.9
03:00 p.m. – 04:00 p.m.	52.1	68.7	49.2
04:00 p.m. – 05:00 p.m.	51.1	63.4	48.6
05:00 p.m. – 06:00 p.m.	50.7	67.5	47.6
06:00 p.m. – 07:00 p.m.	51.2	71.2	48.2
07:00 p.m. – 08:00 p.m.	51.2	70.4	48.5
08:00 p.m. – 09:00 p.m.	50.6	61.8	48.6
09:00 p.m. – 10:00 p.m.	52.0	64.1	50.1
10:00 p.m. – 11:00 p.m.	52.4	68.3	50.5
11:00 p.m. – 00:00 p.m.	50.9	63.9	49.1
00:00 p.m. – 01:00 a.m.	49.2	58.4	47.9
01:00 a.m. – 02:00 a.m.	50.9	65.4	48.9
02:00 a.m. – 03:00 a.m.	51.9	74.5	49.0
03:00 a.m. – 04:00 a.m.	52.6	71.4	50.2
04:00 a.m. – 05:00 a.m.	51.6	65.1	49.6
05:00 a.m. – 06:00 a.m.	51.4	68.5	49.2
06:00 a.m. – 07:00 a.m.	54.2	71.1	51.5
07:00 a.m. – 08:00 a.m.	54.0	72.4	51.5
08:00 a.m. – 09:00 a.m.	52.9	73.5	50.3
09:00 a.m. – 10:00 a.m.	51.9	68.0	49.2
10:00 a.m. – 11:00 a.m.	52.8	71.3	49.6
11:00 a.m. – 12:00 a.m.	51.2	65.5	48.1
12:00 a.m. – 01:00 p.m.	50.4	66.7	47.4
01:00 p.m. – 02:00 p.m.	52.8	69.9	49.6
24 Hours Measured	51.9	86.0	49.3
Standard <sup>1/</sup>	≤70	≤115	-
Evaluation	pass	pass	-
Ldn	58.0	-	-

Remark : 1. <sup>1/</sup> Notification of Ministry of Industry on the Prescription of the Values of Annoyance Sound Level and the sound Level caused by Engaging in a Factory Business B.E. 2548 (Dated 27 December B.E. 2548)



# ANALYSIS REPORT

Analysis No. : NH 236/2566  
Job No. : PCL 1540/66  
Report Date : November 22, 2023

Customer Name : บริษัท โอจี ฟอรัจ (ไทยแลนด์) จำกัด  
Address : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขาม อำเภอศรีราชา จังหวัดชลบุรี 20110  
Sampling Source : Community Noise  
Sampling Location : ทิศใต้ (บริเวณหลังลาน Emer)  
Measured Date : November 16-17, 2023  
Measured Instrument : Sound Level Meter ACO Type 6226 Serial Number 180048

Interval Time	Noise Level (dBA)		
	Leq	Lmax	L90
02:00 p.m. – 03:00 p.m.	54.4	75.0	52.8
03:00 p.m. – 04:00 p.m.	55.5	72.6	52.9
04:00 p.m. – 05:00 p.m.	55.4	73.7	52.6
05:00 p.m. – 06:00 p.m.	55.6	72.2	52.0
06:00 p.m. – 07:00 p.m.	54.8	76.7	52.1
07:00 p.m. – 08:00 p.m.	59.2	84.8	48.7
08:00 p.m. – 09:00 p.m.	52.1	70.2	49.1
09:00 p.m. – 10:00 p.m.	55.3	77.1	51.4
10:00 p.m. – 11:00 p.m.	54.4	75.0	52.8
11:00 p.m. – 00:00 p.m.	55.5	72.6	52.9
00:00 p.m. – 01:00 a.m.	55.4	73.7	52.6
01:00 a.m. – 02:00 a.m.	55.6	72.2	52.0
02:00 a.m. – 03:00 a.m.	54.8	76.7	52.1
03:00 a.m. – 04:00 a.m.	59.2	84.8	48.7
04:00 a.m. – 05:00 a.m.	52.1	70.2	49.1
05:00 a.m. – 06:00 a.m.	55.3	77.1	51.4
06:00 a.m. – 07:00 a.m.	54.4	75.0	52.8
07:00 a.m. – 08:00 a.m.	55.5	72.6	52.9
08:00 a.m. – 09:00 a.m.	55.4	73.7	52.6
09:00 a.m. – 10:00 a.m.	55.6	72.2	52.0
10:00 a.m. – 11:00 a.m.	54.8	76.7	52.1
11:00 a.m. – 12:00 a.m.	59.2	84.8	48.7
12:00 a.m. – 01:00 p.m.	52.1	70.2	49.1
01:00 p.m. – 02:00 p.m.	55.3	77.1	51.4
24 Hours Measured	53.9	84.8	50.6
Standard <sup>1/</sup>	≤70	≤115	-
Evaluation	pass	pass	-
Ldn	59.8	-	-

Remark : 1. <sup>1/</sup> Notification of Ministry of Industry on the Prescription of the Values of Annoyance Sound Level and the sound Level caused by Engaging in a Factory Business B.E. 2548 (Dated 27 December B.E. 2548)





## ANALYSIS REPORT

Analysis No. : NH 236/2566  
Job No. : PCL 1540/66  
Report Date : November 22, 2023

Customer Name : บริษัท โอจี ฟอรัจ (ไทยแลนด์) จำกัด  
Address : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขาม อำเภอสรีราชา จังหวัดชลบุรี 20110  
Sampling Source : Community Noise  
Sampling Location : ทิศใต้ (บริเวณหลังลาน Emer)  
Measured Date : November 17-18, 2023  
Measured Instrument : Sound Level Meter ACO Type 6226 Serial Number 180048

Interval Time	Noise Level (dBA)		
	Leq	Lmax	L90
02:00 p.m. - 03:00 p.m.	54.7	70.3	51.1
03:00 p.m. - 04:00 p.m.	58.6	77.5	56.6
04:00 p.m. - 05:00 p.m.	51.7	77.5	48.7
05:00 p.m. - 06:00 p.m.	51.0	66.5	48.6
06:00 p.m. - 07:00 p.m.	49.7	62.3	48.2
07:00 p.m. - 08:00 p.m.	51.5	69.4	49.1
08:00 p.m. - 09:00 p.m.	52.2	75.9	49.6
09:00 p.m. - 10:00 p.m.	52.5	64.3	50.5
10:00 p.m. - 11:00 p.m.	52.8	65.3	50.4
11:00 p.m. - 00:00 p.m.	53.4	68.2	50.9
00:00 p.m. - 01:00 a.m.	52.3	71.7	49.2
01:00 a.m. - 02:00 a.m.	54.1	71.7	51.3
02:00 a.m. - 03:00 a.m.	55.0	73.1	51.5
03:00 a.m. - 04:00 a.m.	53.3	68.8	49.8
04:00 a.m. - 05:00 a.m.	54.5	69.2	50.4
05:00 a.m. - 06:00 a.m.	55.4	68.6	51.7
06:00 a.m. - 07:00 a.m.	54.5	71.2	51.6
07:00 a.m. - 08:00 a.m.	61.3	84.1	51.3
08:00 a.m. - 09:00 a.m.	54.7	71.7	51.6
09:00 a.m. - 10:00 a.m.	53.9	74.4	50.5
10:00 a.m. - 11:00 a.m.	55.0	71.4	51.3
11:00 a.m. - 12:00 a.m.	52.9	69.8	49.6
12:00 a.m. - 01:00 p.m.	52.1	72.2	47.8
01:00 p.m. - 02:00 p.m.	53.3	78.7	49.2
24 Hours Measured	54.6	84.1	50.9
Standard <sup>1/</sup>	≤70	≤115	-
Evaluation	pass	pass	-
Ldn	60.4	-	-

Remark : 1. <sup>1/</sup> Notification of Ministry of Industry on the Prescription of the Values of Annoyance Sound Level and the sound Level caused by Engaging in a Factory Business B.E. 2548 (Dated 27 December B.E. 2548)

PACIFIC LABORATORY CO., LTD.  
Lab. Supervisor

# ANALYSIS REPORT

Analysis No. : NH 236/2566  
Job No. : PCL 1540/66  
Report Date : November 22, 2023

Customer Name : บริษัท โอจี ฟอรัจ (ไทยแลนด์) จำกัด  
Address : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขาม อำเภอศรีราชา จังหวัดชลบุรี 20110  
Sampling Source : Community Noise  
Sampling Location : ทิศใต้ (บริเวณหลังลาน Emer)  
Measured Date : November 18-19, 2023  
Measured Instrument : Sound Level Meter ACO Type 6226 Serial Number 180048

Interval Time	Noise Level (dBA)		
	Leq	Lmax	L90
02:00 p.m. - 03:00 p.m.	52.5	70.4	49.2
03:00 p.m. - 04:00 p.m.	51.8	71.8	48.9
04:00 p.m. - 05:00 p.m.	52.2	68.8	49.2
05:00 p.m. - 06:00 p.m.	50.8	70.0	48.8
06:00 p.m. - 07:00 p.m.	50.2	62.8	48.7
07:00 p.m. - 08:00 p.m.	55.2	78.1	48.3
08:00 p.m. - 09:00 p.m.	50.6	64.8	48.8
09:00 p.m. - 10:00 p.m.	50.8	62.4	48.9
10:00 p.m. - 11:00 p.m.	50.4	59.5	48.7
11:00 p.m. - 00:00 p.m.	50.0	56.9	48.1
00:00 p.m. - 01:00 a.m.	49.6	62.7	47.0
01:00 a.m. - 02:00 a.m.	50.7	61.1	48.3
02:00 a.m. - 03:00 a.m.	51.0	66.2	48.0
03:00 a.m. - 04:00 a.m.	49.8	59.1	47.8
04:00 a.m. - 05:00 a.m.	49.5	63.1	47.8
05:00 a.m. - 06:00 a.m.	51.0	65.9	48.9
06:00 a.m. - 07:00 a.m.	53.8	74.9	50.8
07:00 a.m. - 08:00 a.m.	54.6	66.5	51.9
08:00 a.m. - 09:00 a.m.	54.7	76.5	50.7
09:00 a.m. - 10:00 a.m.	54.7	68.3	50.3
10:00 a.m. - 11:00 a.m.	54.0	66.0	50.3
11:00 a.m. - 12:00 a.m.	53.6	66.3	49.8
12:00 a.m. - 01:00 p.m.	52.6	66.7	48.4
01:00 p.m. - 02:00 p.m.	52.0	78.2	48.0
24 Hours Measured	52.3	78.2	49.1
Standard <sup>1/</sup>	≤70	≤115	-
Evaluation	pass	pass	-
Ldn	57.3	-	-

Remark : 1. <sup>1/</sup> Notification of Ministry of Industry on the Prescription of the Values of Annoyance Sound Level and the sound Level caused by Engaging in a Factory Business B.E. 2548 (Dated 27 December B.E. 2548)



## ANALYSIS REPORT

Analysis No. : NH 236/2566  
Job No. : PCL 1540/66  
Report Date : November 22, 2023

Customer Name : บริษัท โอจี ฟอรัจ (ไทยแลนด์) จำกัด  
Address : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขาม อำเภอศรีราชา จังหวัดชลบุรี 20110  
Sampling Source : Community Noise  
Sampling Location : ทิศใต้ (บริเวณหลังลาน Emer)  
Measured Date : November 19-20, 2023  
Measured Instrument : Sound Level Meter ACO Type 6226 Serial Number 180048

Interval Time	Noise Level (dBA)		
	Leq	Lmax	L90
02:00 p.m. - 03:00 p.m.	51.6	77.1	47.8
03:00 p.m. - 04:00 p.m.	50.7	63.1	47.5
04:00 p.m. - 05:00 p.m.	52.1	75.6	47.0
05:00 p.m. - 06:00 p.m.	48.6	68.6	46.5
06:00 p.m. - 07:00 p.m.	48.6	65.7	47.0
07:00 p.m. - 08:00 p.m.	48.9	65.7	46.9
08:00 p.m. - 09:00 p.m.	48.0	56.6	46.7
09:00 p.m. - 10:00 p.m.	47.8	57.8	46.4
10:00 p.m. - 11:00 p.m.	48.1	55.1	46.7
11:00 p.m. - 00:00 p.m.	48.2	61.0	46.8
00:00 p.m. - 01:00 a.m.	47.8	56.6	46.2
01:00 a.m. - 02:00 a.m.	48.3	58.5	46.5
02:00 a.m. - 03:00 a.m.	48.8	74.3	46.4
03:00 a.m. - 04:00 a.m.	47.8	56.3	46.2
04:00 a.m. - 05:00 a.m.	48.3	69.3	46.2
05:00 a.m. - 06:00 a.m.	51.2	75.1	48.6
06:00 a.m. - 07:00 a.m.	52.6	68.6	51.3
07:00 a.m. - 08:00 a.m.	54.3	69.9	52.0
08:00 a.m. - 09:00 a.m.	54.7	66.6	52.0
09:00 a.m. - 10:00 a.m.	59.8	76.0	57.9
10:00 a.m. - 11:00 a.m.	53.2	68.4	50.5
11:00 a.m. - 12:00 a.m.	53.5	66.8	50.4
12:00 a.m. - 01:00 p.m.	52.1	68.5	48.7
01:00 p.m. - 02:00 p.m.	51.9	71.7	48.5
24 Hours Measured	52.0	77.1	49.7
Standard <sup>V</sup>	≤70	≤115	-
Evaluation	pass	pass	-
Ldn	56.1	-	-

Remark : 1. <sup>V</sup> Notification of Ministry of Industry on the Prescription of the Values of Annoyance Sound Level and the sound Level caused by Engaging in a Factory Business B.E. 2548 (Dated 27 December B.E. 2548)

  
Lab. Supervisor



# ANALYSIS REPORT

Analysis No. : NH 236/2566  
Job No. : PCL 1540/66  
Report Date : November 22, 2023

Customer Name : บริษัท โอจี ฟอรัจ (ไทยแลนด์) จำกัด  
Address : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขาม อำเภอศรีราชา จังหวัดชลบุรี 20110  
Sampling Source : Community Noise  
Sampling Location : ทิศตะวันออก (บริเวณสนามฟุตบอล)  
Measured Date : November 13-14, 2023  
Measured Instrument : Sound Level Meter ACO Type 6226 Serial Number 200032

Interval Time	Noise Level (dBA)		
	Leq	Lmax	L90
02:00 p.m. - 03:00 p.m.	65.3	84.2	61.2
03:00 p.m. - 04:00 p.m.	65.0	78.2	61.3
04:00 p.m. - 05:00 p.m.	61.5	76.4	58.7
05:00 p.m. - 06:00 p.m.	60.6	82.0	56.6
06:00 p.m. - 07:00 p.m.	61.4	83.1	58.0
07:00 p.m. - 08:00 p.m.	57.8	72.9	56.2
08:00 p.m. - 09:00 p.m.	66.9	85.8	60.7
09:00 p.m. - 10:00 p.m.	64.8	80.9	60.4
10:00 p.m. - 11:00 p.m.	62.9	81.5	58.8
11:00 p.m. - 00:00 p.m.	68.7	111.6	59.1
00:00 p.m. - 01:00 a.m.	56.9	75.0	55.6
01:00 a.m. - 02:00 a.m.	66.7	82.2	61.3
02:00 a.m. - 03:00 a.m.	65.1	79.7	60.9
03:00 a.m. - 04:00 a.m.	65.1	80.9	60.7
04:00 a.m. - 05:00 a.m.	70.1	113.1	59.8
05:00 a.m. - 06:00 a.m.	60.6	76.8	57.7
06:00 a.m. - 07:00 a.m.	61.6	75.8	58.1
07:00 a.m. - 08:00 a.m.	59.0	80.5	56.7
08:00 a.m. - 09:00 a.m.	65.0	84.8	59.6
09:00 a.m. - 10:00 a.m.	64.1	83.9	59.9
10:00 a.m. - 11:00 a.m.	64.3	84.8	59.8
11:00 a.m. - 12:00 a.m.	62.9	85.8	58.4
12:00 a.m. - 01:00 p.m.	56.6	80.6	53.8
01:00 p.m. - 02:00 p.m.	65.9	86.7	60.0
24 Hours Measured	64.5	113.1	59.3
Standard <sup>1/</sup>	≤70	≤115	-
Evaluation	pass	pass	-
Ldn	72.1	-	-

Remark : 1. <sup>1/</sup> Notification of Ministry of Industry on the Prescription of the Values of Annoyance Sound Level and the sound Level caused by Engaging in a Factory Business B.E. 2548 (Dated 27 December B.E. 2548)

PACIFIC LABORATORY  
Lab. Supervisor  
PCL

# ANALYSIS REPORT

Analysis No. : NH 236/2566  
Job No. : PCL 1540/66  
Report Date : November 22, 2023

Customer Name : บริษัท ไอจี พอร์จ (ไทยแลนด์) จำกัด  
Address : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขาม อำเภอศรีราชา จังหวัดชลบุรี 20110  
Sampling Source : Community Noise  
Sampling Location : ทิศตะวันออก (บริเวณสนามฟุตบอล)  
Measured Date : November 14-15, 2023  
Measured Instrument : Sound Level Meter ACO Type 6226 Serial Number 200032

Interval Time	Noise Level (dBA)		
	Leq	Lmax	L90
02:00 p.m. - 03:00 p.m.	64.7	98.4	59.8
03:00 p.m. - 04:00 p.m.	69.0	100.5	60.5
04:00 p.m. - 05:00 p.m.	60.3	76.0	57.0
05:00 p.m. - 06:00 p.m.	57.9	72.7	54.7
06:00 p.m. - 07:00 p.m.	66.8	101.1	55.4
07:00 p.m. - 08:00 p.m.	60.4	94.0	55.9
08:00 p.m. - 09:00 p.m.	66.3	84.3	60.4
09:00 p.m. - 10:00 p.m.	65.4	81.8	60.7
10:00 p.m. - 11:00 p.m.	65.5	82.8	61.2
11:00 p.m. - 00:00 p.m.	64.3	79.6	60.2
00:00 p.m. - 01:00 a.m.	57.6	72.6	56.5
01:00 a.m. - 02:00 a.m.	65.4	84.0	60.1
02:00 a.m. - 03:00 a.m.	65.6	83.3	60.7
03:00 a.m. - 04:00 a.m.	65.1	80.2	61.4
04:00 a.m. - 05:00 a.m.	61.7	76.8	58.8
05:00 a.m. - 06:00 a.m.	58.7	73.8	55.4
06:00 a.m. - 07:00 a.m.	60.2	76.8	56.2
07:00 a.m. - 08:00 a.m.	65.6	99.5	55.9
08:00 a.m. - 09:00 a.m.	64.8	83.3	59.9
09:00 a.m. - 10:00 a.m.	65.3	83.7	60.7
10:00 a.m. - 11:00 a.m.	63.3	79.5	59.2
11:00 a.m. - 12:00 a.m.	62.7	76.4	57.4
12:00 a.m. - 01:00 p.m.	56.0	77.9	53.6
01:00 p.m. - 02:00 p.m.	62.3	81.6	57.7
24 Hours Measured	64.2	101.1	58.9
Standard <sup>1/</sup>	≤70	≤115	-
Evaluation	pass	pass	-
Ldn	70.5	-	-

Remark : 1. <sup>1/</sup> Notification of Ministry of Industry on the Prescription of the Values of Annoyance Sound Level and the sound Level caused by Engaging in a Factory Business B.E. 2548 (Dated 27 December B.E. 2548)

LABORATORY CO., LTD.  
[Signature]  
Lab. Supervisor



# ANALYSIS REPORT

Analysis No. : NH 236/2566  
Job No. : PCL 1540/66  
Report Date : November 22, 2023

Customer Name : บริษัท โอจี ฟอรัจ (ไทยแลนด์) จำกัด  
Address : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมบึงทอง 2 ตำบลหนองขาม อำเภอศรีราชา จังหวัดชลบุรี 20110  
Sampling Source : Community Noise  
Sampling Location : หิศตะวันออก (บริเวณสนามฟุตบอล)  
Measured Date : November 15-16, 2023  
Measured Instrument : Sound Level Meter ACO Type 6226 Serial Number 200032

Interval Time	Noise Level (dBA)		
	Leq	Lmax	L90
02:00 p.m. – 03:00 p.m.	64.9	102.8	58.7
03:00 p.m. – 04:00 p.m.	63.8	82.9	58.7
04:00 p.m. – 05:00 p.m.	62.1	79.9	58.3
05:00 p.m. – 06:00 p.m.	63.6	82.6	57.8
06:00 p.m. – 07:00 p.m.	65.8	93.0	60.2
07:00 p.m. – 08:00 p.m.	60.9	76.3	58.2
08:00 p.m. – 09:00 p.m.	66.7	84.9	60.8
09:00 p.m. – 10:00 p.m.	66.7	87.7	61.7
10:00 p.m. – 11:00 p.m.	64.6	78.6	60.7
11:00 p.m. – 00:00 p.m.	61.8	74.6	58.4
00:00 p.m. – 01:00 a.m.	58.5	74.8	56.5
01:00 a.m. – 02:00 a.m.	66.5	85.5	61.1
02:00 a.m. – 03:00 a.m.	64.6	80.1	60.2
03:00 a.m. – 04:00 a.m.	64.6	76.0	60.3
04:00 a.m. – 05:00 a.m.	61.0	76.5	57.9
05:00 a.m. – 06:00 a.m.	57.6	75.4	55.5
06:00 a.m. – 07:00 a.m.	57.9	70.8	56.1
07:00 a.m. – 08:00 a.m.	59.4	92.3	54.9
08:00 a.m. – 09:00 a.m.	62.8	84.1	58.5
09:00 a.m. – 10:00 a.m.	65.7	83.1	59.9
10:00 a.m. – 11:00 a.m.	64.6	88.2	60.3
11:00 a.m. – 12:00 a.m.	63.3	84.9	59.2
12:00 a.m. – 01:00 p.m.	56.2	76.7	54.2
01:00 p.m. – 02:00 p.m.	65.4	82.7	60.3
24 Hours Measured	63.8	102.8	59.1
Standard <sup>1/</sup>	≤70	≤115	-
Evaluation	pass	pass	-
Ldn	70.2	-	-

Remark : 1. <sup>1/</sup> Notification of Ministry of Industry on the Prescription of the Values of Annoyance Sound Level and the sound Level caused by Engaging in a Factory Business B.E. 2548 (Dated 27 December B.E. 2548)



# ANALYSIS REPORT

Analysis No. : NH 236/2566  
Job No. : PCL 1540/66  
Report Date : November 22, 2023

Customer Name : บริษัท โอจี ฟอรัจ (ไทยแลนด์) จำกัด  
Address : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขาม อำเภอสรีราชา จังหวัดชลบุรี 20110  
Sampling Source : Community Noise  
Sampling Location : ทิศตะวันออก (บริเวณสนามฟุตบอล)  
Measured Date : November 16-17, 2023  
Measured Instrument : Sound Level Meter ACO Type 6226 Serial Number 200032

Interval Time	Noise Level (dBA)		
	Leq	Lmax	L90
02:00 p.m. - 03:00 p.m.	64.8	90.3	59.6
03:00 p.m. - 04:00 p.m.	63.9	78.7	59.8
04:00 p.m. - 05:00 p.m.	62.9	77.2	58.9
05:00 p.m. - 06:00 p.m.	60.0	78.7	57.2
06:00 p.m. - 07:00 p.m.	66.0	83.9	58.9
07:00 p.m. - 08:00 p.m.	61.2	87.0	57.5
08:00 p.m. - 09:00 p.m.	65.4	84.1	60.1
09:00 p.m. - 10:00 p.m.	65.9	85.2	60.7
10:00 p.m. - 11:00 p.m.	63.8	78.4	59.5
11:00 p.m. - 00:00 p.m.	62.3	86.6	58.8
00:00 p.m. - 01:00 a.m.	57.7	72.3	56.0
01:00 a.m. - 02:00 a.m.	65.6	81.7	59.9
02:00 a.m. - 03:00 a.m.	65.0	78.3	60.3
03:00 a.m. - 04:00 a.m.	63.5	76.3	59.8
04:00 a.m. - 05:00 a.m.	60.1	74.8	57.0
05:00 a.m. - 06:00 a.m.	59.7	76.4	56.3
06:00 a.m. - 07:00 a.m.	60.8	76.1	57.5
07:00 a.m. - 08:00 a.m.	60.3	89.4	56.5
08:00 a.m. - 09:00 a.m.	63.5	84.1	59.4
09:00 a.m. - 10:00 a.m.	65.7	84.1	60.9
10:00 a.m. - 11:00 a.m.	63.7	78.8	60.1
11:00 a.m. - 12:00 a.m.	61.3	77.5	57.8
12:00 a.m. - 01:00 p.m.	60.0	83.7	55.0
01:00 p.m. - 02:00 p.m.	65.0	90.6	59.8
24 Hours Measured	63.4	90.6	58.9
Standard <sup>1/</sup>	≤70	≤115	-
Evaluation	pass	pass	-
Ldn	69.8	-	-

Remark : 1. <sup>1/</sup> Notification of Ministry of Industry on the Prescription of the Values of Annoyance Sound Level and the sound Level caused by Engaging in a Factory Business B.E. 2548 (Dated 27 December B.E. 2548)

  
Lab. Supervisor

## ANALYSIS REPORT

Analysis No. : NH 236/2566  
Job No. : PCL 1540/66  
Report Date : November 22, 2023

Customer Name : บริษัท โอจี ฟอรัจ (ไทยแลนด์) จำกัด  
Address : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมบึงทอง 2 ตำบลหนองขาม อำเภอศรีราชา จังหวัดชลบุรี 20110  
Sampling Source : Community Noise  
Sampling Location : ทิศตะวันออก (บริเวณสนามฟุตบอล)  
Measured Date : November 17-18, 2023  
Measured Instrument : Sound Level Meter ACO Type 6226 Serial Number 200032

Interval Time	Noise Level (dBA)		
	Leq	Lmax	L90
02:00 p.m. - 03:00 p.m.	64.1	85.0	59.8
03:00 p.m. - 04:00 p.m.	62.7	80.7	58.8
04:00 p.m. - 05:00 p.m.	59.2	86.1	55.3
05:00 p.m. - 06:00 p.m.	54.5	63.6	53.6
06:00 p.m. - 07:00 p.m.	54.9	69.5	54.1
07:00 p.m. - 08:00 p.m.	56.3	70.3	55.4
08:00 p.m. - 09:00 p.m.	65.3	85.5	60.0
09:00 p.m. - 10:00 p.m.	65.2	79.5	60.3
10:00 p.m. - 11:00 p.m.	64.3	79.1	59.3
11:00 p.m. - 00:00 p.m.	63.0	77.9	59.5
00:00 p.m. - 01:00 a.m.	58.4	73.0	56.2
01:00 a.m. - 02:00 a.m.	65.6	83.9	58.7
02:00 a.m. - 03:00 a.m.	65.7	87.0	60.7
03:00 a.m. - 04:00 a.m.	64.4	87.5	59.9
04:00 a.m. - 05:00 a.m.	56.8	74.5	55.2
05:00 a.m. - 06:00 a.m.	55.9	69.3	54.7
06:00 a.m. - 07:00 a.m.	56.3	65.9	55.3
07:00 a.m. - 08:00 a.m.	56.3	68.5	55.4
08:00 a.m. - 09:00 a.m.	56.7	68.2	55.6
09:00 a.m. - 10:00 a.m.	55.8	61.8	54.8
10:00 a.m. - 11:00 a.m.	56.0	73.7	54.8
11:00 a.m. - 12:00 a.m.	55.3	67.9	54.2
12:00 a.m. - 01:00 p.m.	54.7	73.7	53.0
01:00 p.m. - 02:00 p.m.	55.1	84.2	53.6
24 Hours Measured	61.3	87.5	57.3
Standard <sup>1/</sup>	≤70	≤115	-
Evaluation	pass	pass	-
Ldn	69.4	-	-

Remark : 1. <sup>1/</sup> Notification of Ministry of Industry on the Prescription of the Values of Annoyance Sound Level and the sound Level caused by Engaging in a Factory Business B.E. 2548 (Dated 27 December B.E. 2548)



Lab. Supervisor



# ANALYSIS REPORT

Analysis No. : NH 236/2566  
Job No. : PCL 1540/66  
Report Date : November 22, 2023

Customer Name : บริษัท โอจี ฟอรัจ (ไทยแลนด์) จำกัด  
Address : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขาม อำเภอศรีราชา จังหวัดชลบุรี 20110  
Sampling Source : Community Noise  
Sampling Location : ทิศตะวันออก (บริเวณสนามฟุตบอล)  
Measured Date : November 18-19, 2023  
Measured Instrument : Sound Level Meter ACO Type 6226 Serial Number 200032

Interval Time	Noise Level (dBA)		
	Leq	Lmax	L90
02:00 p.m. - 03:00 p.m.	55.3	84.2	53.7
03:00 p.m. - 04:00 p.m.	54.9	63.3	53.7
04:00 p.m. - 05:00 p.m.	55.7	69.3	54.2
05:00 p.m. - 06:00 p.m.	55.5	69.1	53.9
06:00 p.m. - 07:00 p.m.	55.8	68.9	54.8
07:00 p.m. - 08:00 p.m.	55.9	64.5	55.1
08:00 p.m. - 09:00 p.m.	55.2	66.4	54.4
09:00 p.m. - 10:00 p.m.	54.9	62.9	54.1
10:00 p.m. - 11:00 p.m.	54.7	61.7	54.0
11:00 p.m. - 00:00 p.m.	54.4	60.1	53.7
00:00 p.m. - 01:00 a.m.	54.7	58.6	54.0
01:00 a.m. - 02:00 a.m.	55.0	58.7	54.2
02:00 a.m. - 03:00 a.m.	54.9	58.4	54.1
03:00 a.m. - 04:00 a.m.	54.8	65.2	54.0
04:00 a.m. - 05:00 a.m.	54.6	59.0	53.8
05:00 a.m. - 06:00 a.m.	54.7	63.9	53.7
06:00 a.m. - 07:00 a.m.	55.2	65.1	54.3
07:00 a.m. - 08:00 a.m.	55.8	65.3	54.6
08:00 a.m. - 09:00 a.m.	60.3	74.3	54.5
09:00 a.m. - 10:00 a.m.	60.7	74.4	55.1
10:00 a.m. - 11:00 a.m.	59.2	70.6	54.4
11:00 a.m. - 12:00 a.m.	57.8	70.2	53.4
12:00 a.m. - 01:00 p.m.	53.6	63.9	52.4
01:00 p.m. - 02:00 p.m.	55.8	66.1	52.8
24 Hours Measured	56.3	84.2	54.1
Standard <sup>1/</sup>	≤70	≤115	-
Evaluation	pass	pass	-
Ldn	61.6	-	-

Remark : 1. <sup>1/</sup> Notification of Ministry of Industry on the Prescription of the Values of Annoyance Sound Level and the sound Level caused by Engaging in a Factory Business B.E. 2548 (Dated 27 December B.E. 2548)

PACIFIC LABORATORY CO., LTD.  
Lab. Supervisor

## ANALYSIS REPORT

Analysis No. : NH 236/2566  
Job No. : PCL 1540/66  
Report Date : November 22, 2023

Customer Name : บริษัท โอจี ฟอรัจ (ไทยแลนด์) จำกัด  
Address : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขาม อำเภอศรีราชา จังหวัดชลบุรี 20110  
Sampling Source : Community Noise  
Sampling Location : ทิศตะวันออก (บริเวณสนามฟุตบอล)  
Measured Date : November 19-20, 2023  
Measured Instrument : Sound Level Meter ACO Type 6226 Serial Number 200032

Interval Time	Noise Level (dBA)		
	Leq	Lmax	L90
02:00 p.m. - 03:00 p.m.	62.2	97.9	52.6
03:00 p.m. - 04:00 p.m.	55.2	70.0	52.8
04:00 p.m. - 05:00 p.m.	55.5	71.8	52.9
05:00 p.m. - 06:00 p.m.	53.9	66.5	52.5
06:00 p.m. - 07:00 p.m.	57.5	81.8	54.3
07:00 p.m. - 08:00 p.m.	54.5	77.7	52.8
08:00 p.m. - 09:00 p.m.	59.6	91.4	53.2
09:00 p.m. - 10:00 p.m.	58.1	82.1	52.5
10:00 p.m. - 11:00 p.m.	54.0	76.8	52.1
11:00 p.m. - 00:00 p.m.	56.3	86.4	51.2
00:00 p.m. - 01:00 a.m.	50.3	64.1	47.0
01:00 a.m. - 02:00 a.m.	53.3	82.4	51.7
02:00 a.m. - 03:00 a.m.	52.5	64.5	51.2
03:00 a.m. - 04:00 a.m.	52.9	64.1	51.1
04:00 a.m. - 05:00 a.m.	58.9	85.0	53.3
05:00 a.m. - 06:00 a.m.	54.9	72.2	52.5
06:00 a.m. - 07:00 a.m.	55.7	80.6	53.0
07:00 a.m. - 08:00 a.m.	53.2	70.4	52.3
08:00 a.m. - 09:00 a.m.	57.0	81.1	52.4
09:00 a.m. - 10:00 a.m.	59.5	86.9	53.2
10:00 a.m. - 11:00 a.m.	55.5	82.1	52.7
11:00 a.m. - 12:00 a.m.	54.9	72.9	53.1
12:00 a.m. - 01:00 p.m.	52.4	68.1	51.0
01:00 p.m. - 02:00 p.m.	53.6	66.8	50.7
24 Hours Measured	56.4	97.9	52.3
Standard <sup>1/</sup>	≤70	≤115	-
Evaluation	pass	pass	-
Ldn	62.0	-	-

Remark : 1. <sup>1/</sup> Notification of Ministry of Industry on the Prescription of the Values of Annoyance Sound Level and the sound Level caused by Engaging in a Factory Business B.E. 2548 (Dated 27 December B.E. 2548)



Lab. Supervisor



# ANALYSIS REPORT

Analysis No. : NH 236/2566  
Job No. : PCL 1540/66  
Report Date : November 22, 2023

Customer Name : บริษัท ไอจี พอร์จ (ไทยแลนด์) จำกัด  
Address : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขาม อำเภอศรีราชา จังหวัดชลบุรี 20110  
Sampling Source : Community Noise  
Sampling Location : ทิศตะวันตก (บริเวณป้อม รปภ. 1)  
Measured Date : November 13-14, 2023  
Measured Instrument : Sound Level Meter ACO Type 6226 Serial Number 170091

Interval Time	Noise Level (dBA)		
	Leq	Lmax	L90
02:00 p.m. – 03:00 p.m.	63.5	90.8	59.8
03:00 p.m. – 04:00 p.m.	61.8	85.6	57.5
04:00 p.m. – 05:00 p.m.	64.1	89.7	64.1
05:00 p.m. – 06:00 p.m.	61.8	82.5	55.8
06:00 p.m. – 07:00 p.m.	67.8	82.7	62.8
07:00 p.m. – 08:00 p.m.	67.2	81.5	61.9
08:00 p.m. – 09:00 p.m.	70.5	90.8	64.7
09:00 p.m. – 10:00 p.m.	69.9	81.6	65.0
10:00 p.m. – 11:00 p.m.	68.9	79.8	64.4
11:00 p.m. – 00:00 p.m.	68.7	79.4	63.8
00:00 p.m. – 01:00 a.m.	52.7	72.2	49.8
01:00 a.m. – 02:00 a.m.	69.7	82.3	64.8
02:00 a.m. – 03:00 a.m.	70.2	79.1	65.4
03:00 a.m. – 04:00 a.m.	70.0	78.7	65.3
04:00 a.m. – 05:00 a.m.	70.2	82.8	65.4
05:00 a.m. – 06:00 a.m.	63.4	86.5	56.8
06:00 a.m. – 07:00 a.m.	64.4	91.6	58.2
07:00 a.m. – 08:00 a.m.	65.5	82.5	60.2
08:00 a.m. – 09:00 a.m.	67.6	88.7	62.3
09:00 a.m. – 10:00 a.m.	69.4	79.4	64.4
10:00 a.m. – 11:00 a.m.	68.8	80.2	63.7
11:00 a.m. – 12:00 a.m.	60.3	82.9	56.7
12:00 a.m. – 01:00 p.m.	60.6	85.9	54.9
01:00 p.m. – 02:00 p.m.	67.1	85.9	62.2
24 Hours Measured	67.5	91.6	62.6
Standard <sup>1/</sup>	≤70	≤115	-
Evaluation	pass	pass	-
Ldn	74.9	-	-

Remark : 1. <sup>1/</sup> Notification of Ministry of Industry on the Prescription of the Values of Annoyance Sound Level and the sound Level caused by Engaging in a Factory Business B.E. 2548 (Dated 27 December B.E. 2548)

LABORATORY CO., LTD.  
[Signature]  
Lab Supervisor

# ANALYSIS REPORT

Analysis No. : NH 236/2566  
Job No. : PCL 1540/66  
Report Date : November 22, 2023

Customer Name : บริษัท โอจี ฟอรัจ (ไทยแลนด์) จำกัด  
Address : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขาม อำเภอศรีราชา จังหวัดชลบุรี 20110  
Sampling Source : Community Noise  
Sampling Location : ทิศตะวันตก (บริเวณป้อม รปภ. 1)  
Measured Date : November 14-15, 2023  
Measured Instrument : Sound Level Meter ACO Type 6226 Serial Number 170091

Interval Time	Noise Level (dBA)		
	Leq	Lmax	L90
02:00 p.m. – 03:00 p.m.	64.0	80.6	59.2
03:00 p.m. – 04:00 p.m.	62.7	80.6	59.7
04:00 p.m. – 05:00 p.m.	65.4	78.3	61.6
05:00 p.m. – 06:00 p.m.	62.6	82.9	56.2
06:00 p.m. – 07:00 p.m.	67.3	85.7	61.9
07:00 p.m. – 08:00 p.m.	63.9	86.8	56.3
08:00 p.m. – 09:00 p.m.	67.6	83.0	62.2
09:00 p.m. – 10:00 p.m.	69.5	81.6	64.3
10:00 p.m. – 11:00 p.m.	69.5	79.9	64.3
11:00 p.m. – 00:00 p.m.	68.8	78.9	63.4
00:00 p.m. – 01:00 a.m.	52.8	76.1	48.5
01:00 a.m. – 02:00 a.m.	62.7	79.2	58.7
02:00 a.m. – 03:00 a.m.	60.7	78.7	57.5
03:00 a.m. – 04:00 a.m.	59.1	75.6	56.4
04:00 a.m. – 05:00 a.m.	67.7	86.9	62.6
05:00 a.m. – 06:00 a.m.	61.8	81.6	56.3
06:00 a.m. – 07:00 a.m.	69.0	79.2	63.8
07:00 a.m. – 08:00 a.m.	70.9	88.1	65.6
08:00 a.m. – 09:00 a.m.	69.7	83.8	64.4
09:00 a.m. – 10:00 a.m.	62.9	81.5	59.6
10:00 a.m. – 11:00 a.m.	63.6	86.5	61.0
11:00 a.m. – 12:00 a.m.	59.4	84.5	54.1
12:00 a.m. – 01:00 p.m.	59.8	82.4	55.6
01:00 p.m. – 02:00 p.m.	66.8	86.3	61.9
24 Hours Measured	66.2	88.1	61.3
Standard <sup>V</sup>	≤70	≤115	-
Evaluation	pass	pass	-
Ldn	72.6	-	-

Remark : 1. <sup>V</sup> Notification of Ministry of Industry on the Prescription of the Values of Annoyance Sound Level and the sound Level caused by Engaging in a Factory Business B.E. 2548 (Dated 27 December B.E. 2548)

PACIFIC LABORATORY CO., LTD.  
Lab. Supervisor

## ANALYSIS REPORT

Analysis No. : NH 236/2566  
Job No. : PCL 1540/66  
Report Date : November 22, 2023

Customer Name : บริษัท ไอจี พอร์จ (ไทยแลนด์) จำกัด  
Address : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขาม อำเภอสรีราชา จังหวัดชลบุรี 20110  
Sampling Source : Community Noise  
Sampling Location : ทิศตะวันตก (บริเวณปั๊ม รปภ. 1)  
Measured Date : November 15-16, 2023  
Measured Instrument : Sound Level Meter ACO Type 6226 Serial Number 170091

Interval Time	Noise Level (dBA)		
	Leq	Lmax	L90
02:00 p.m. - 03:00 p.m.	63.6	98.4	59.7
03:00 p.m. - 04:00 p.m.	68.0	85.3	62.9
04:00 p.m. - 05:00 p.m.	65.9	83.1	60.4
05:00 p.m. - 06:00 p.m.	61.9	88.1	54.7
06:00 p.m. - 07:00 p.m.	60.7	85.7	54.5
07:00 p.m. - 08:00 p.m.	64.0	86.5	55.0
08:00 p.m. - 09:00 p.m.	64.0	81.5	58.4
09:00 p.m. - 10:00 p.m.	69.0	78.0	64.1
10:00 p.m. - 11:00 p.m.	68.1	82.2	63.6
11:00 p.m. - 00:00 p.m.	65.0	80.6	60.6
00:00 p.m. - 01:00 a.m.	52.8	77.2	48.9
01:00 a.m. - 02:00 a.m.	61.2	87.0	58.4
02:00 a.m. - 03:00 a.m.	64.3	78.4	60.1
03:00 a.m. - 04:00 a.m.	69.0	78.9	63.9
04:00 a.m. - 05:00 a.m.	67.9	83.3	62.8
05:00 a.m. - 06:00 a.m.	62.9	78.6	57.0
06:00 a.m. - 07:00 a.m.	69.7	81.9	64.3
07:00 a.m. - 08:00 a.m.	70.9	89.8	65.5
08:00 a.m. - 09:00 a.m.	69.7	83.8	64.3
09:00 a.m. - 10:00 a.m.	63.8	89.9	59.4
10:00 a.m. - 11:00 a.m.	62.5	77.4	58.7
11:00 a.m. - 12:00 a.m.	61.1	79.7	57.4
12:00 a.m. - 01:00 p.m.	60.2	79.6	55.8
01:00 p.m. - 02:00 p.m.	66.9	85.2	62.4
24 Hours Measured	66.2	98.4	61.2
Standard <sup>1/</sup>	≤70	≤115	-
Evaluation	pass	pass	-
Ldn	72.6	-	-

Remark : 1. <sup>1/</sup> Notification of Ministry of Industry on the Prescription of the Values of Annoyance Sound Level and the sound Level caused by Engaging in a Factory Business B.E. 2548 (Dated 27 December B.E. 2548)





## ANALYSIS REPORT

Analysis No. : NH 236/2566  
Job No. : PCL 1540/66  
Report Date : November 22, 2023

Customer Name : บริษัท โอจี ฟอรัจ (ไทยแลนด์) จำกัด  
Address : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขาม อำเภอศรีราชา จังหวัดชลบุรี 20110  
Sampling Source : Community Noise  
Sampling Location : ทิศตะวันตก (บริเวณป้อม รปภ. 1)  
Measured Date : November 16-17, 2023  
Measured Instrument : Sound Level Meter ACO Type 6226 Serial Number 170091

Interval Time	Noise Level (dBA)		
	Leq	Lmax	L90
02:00 p.m. - 03:00 p.m.	68.9	81.8	64.2
03:00 p.m. - 04:00 p.m.	68.7	84.8	63.2
04:00 p.m. - 05:00 p.m.	67.6	82.7	61.8
05:00 p.m. - 06:00 p.m.	62.3	86.5	55.5
06:00 p.m. - 07:00 p.m.	66.7	85.1	60.8
07:00 p.m. - 08:00 p.m.	67.2	90.3	60.4
08:00 p.m. - 09:00 p.m.	63.2	82.8	57.6
09:00 p.m. - 10:00 p.m.	61.7	77.1	58.2
10:00 p.m. - 11:00 p.m.	64.5	78.6	60.1
11:00 p.m. - 00:00 p.m.	68.4	79.3	63.5
00:00 p.m. - 01:00 a.m.	53.8	77.1	48.6
01:00 a.m. - 02:00 a.m.	69.3	83.5	64.2
02:00 a.m. - 03:00 a.m.	69.6	79.3	64.5
03:00 a.m. - 04:00 a.m.	69.5	80.4	64.5
04:00 a.m. - 05:00 a.m.	66.6	85.7	61.2
05:00 a.m. - 06:00 a.m.	63.1	85.7	56.4
06:00 a.m. - 07:00 a.m.	69.4	79.2	64.4
07:00 a.m. - 08:00 a.m.	70.8	85.3	66.1
08:00 a.m. - 09:00 a.m.	70.0	83.4	65.0
09:00 a.m. - 10:00 a.m.	66.6	82.0	62.2
10:00 a.m. - 11:00 a.m.	65.9	83.3	61.2
11:00 a.m. - 12:00 a.m.	65.8	91.4	56.1
12:00 a.m. - 01:00 p.m.	62.8	85.7	57.0
01:00 p.m. - 02:00 p.m.	69.6	90.1	64.3
24 Hours Measured	67.4	91.4	62.2
Standard <sup>1/</sup>	≤70	≤115	-
Evaluation	pass	pass	-
Ldn	73.5	-	-

Remark : 1. <sup>1/</sup> Notification of Ministry of Industry on the Prescription of the Values of Annoyance Sound Level and the sound Level caused by Engaging in a Factory Business B.E. 2548 (Dated 27 December B.E. 2548)

LABORATORY CO., LTD.  
[Signature]  
Lab. Supervisor

## ANALYSIS REPORT

Analysis No. : NH 236/2566  
Job No. : PCL 1540/66  
Report Date : November 22, 2023

Customer Name : บริษัท โอจี ฟอรัจ (ไทยแลนด์) จำกัด  
Address : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขาม อำเภอศรีราชา จังหวัดชลบุรี 20110  
Sampling Source : Community Noise  
Sampling Location : ทิศตะวันตก (บริเวณป้อม รปภ. 1)  
Measured Date : November 17-18, 2023  
Measured Instrument : Sound Level Meter ACO Type 6226 Serial Number 170091

Interval Time	Noise Level (dB(A))		
	Leq	Lmax	L90
02:00 p.m. – 03:00 p.m.	69.5	80.9	64.2
03:00 p.m. – 04:00 p.m.	69.4	81.8	64.1
04:00 p.m. – 05:00 p.m.	66.9	82.6	61.4
05:00 p.m. – 06:00 p.m.	62.4	86.3	54.8
06:00 p.m. – 07:00 p.m.	58.6	86.1	48.8
07:00 p.m. – 08:00 p.m.	65.0	92.3	52.6
08:00 p.m. – 09:00 p.m.	62.4	89.4	57.1
09:00 p.m. – 10:00 p.m.	60.9	89.6	56.7
10:00 p.m. – 11:00 p.m.	62.7	82.3	58.7
11:00 p.m. – 00:00 p.m.	67.5	79.8	62.9
00:00 p.m. – 01:00 a.m.	58.9	77.4	52.5
01:00 a.m. – 02:00 a.m.	69.6	82.4	64.7
02:00 a.m. – 03:00 a.m.	69.7	78.7	65.1
03:00 a.m. – 04:00 a.m.	66.0	85.6	61.2
04:00 a.m. – 05:00 a.m.	62.3	92.4	52.9
05:00 a.m. – 06:00 a.m.	61.5	84.5	51.0
06:00 a.m. – 07:00 a.m.	61.5	80.5	52.0
07:00 a.m. – 08:00 a.m.	68.0	93.9	57.4
08:00 a.m. – 09:00 a.m.	62.9	84.8	56.4
09:00 a.m. – 10:00 a.m.	61.6	90.3	55.1
10:00 a.m. – 11:00 a.m.	61.8	77.2	56.5
11:00 a.m. – 12:00 a.m.	60.8	79.5	55.4
12:00 a.m. – 01:00 p.m.	59.1	79.5	51.1
01:00 p.m. – 02:00 p.m.	59.5	91.2	53.4
24 Hours Measured	65.3	93.9	59.5
Standard <sup>V</sup>	≤70	≤115	-
Evaluation	pass	pass	-
Ldn	72.2	-	-

Remark : 1. <sup>V</sup> Notification of Ministry of Industry on the Prescription of the Values of Annoyance Sound Level and the sound Level caused by Engaging in a Factory Business B.E. 2548 (Dated 27 December B.E. 2548)

LABORATORY CO., LTD.  
[Signature]  
Lab. Supervisor

## ANALYSIS REPORT

Analysis No. : NH 236/2566  
Job No. : PCL 1540/66  
Report Date : November 22, 2023

Customer Name : บริษัท ไอจี ฟอรัจ (ไทยแลนด์) จำกัด  
Address : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขาม อำเภอศรีราชา จังหวัดชลบุรี 20110  
Sampling Source : Community Noise  
Sampling Location : ทิศตะวันตก (บริเวณป้อม รถป. 1)  
Measured Date : November 18-19, 2023  
Measured Instrument : Sound Level Meter ACO Type 6226 Serial Number 170091

Interval Time	Noise Level (dBA)		
	Leq	Lmax	L90
02:00 p.m. - 03:00 p.m.	56.1	80.7	51.7
03:00 p.m. - 04:00 p.m.	55.4	76.2	51.6
04:00 p.m. - 05:00 p.m.	56.0	78.0	51.7
05:00 p.m. - 06:00 p.m.	54.2	74.0	47.6
06:00 p.m. - 07:00 p.m.	55.5	71.5	51.6
07:00 p.m. - 08:00 p.m.	61.5	91.5	51.3
08:00 p.m. - 09:00 p.m.	56.6	89.9	48.4
09:00 p.m. - 10:00 p.m.	52.8	72.3	48.9
10:00 p.m. - 11:00 p.m.	53.9	73.3	50.7
11:00 p.m. - 00:00 p.m.	54.5	73.1	51.6
00:00 p.m. - 01:00 a.m.	50.2	72.1	44.9
01:00 a.m. - 02:00 a.m.	52.9	64.5	50.4
02:00 a.m. - 03:00 a.m.	53.1	70.6	50.1
03:00 a.m. - 04:00 a.m.	54.4	71.5	52.1
04:00 a.m. - 05:00 a.m.	53.3	84.2	48.9
05:00 a.m. - 06:00 a.m.	52.0	75.7	45.8
06:00 a.m. - 07:00 a.m.	58.6	85.9	50.6
07:00 a.m. - 08:00 a.m.	64.8	84.2	58.4
08:00 a.m. - 09:00 a.m.	61.6	87.8	54.7
09:00 a.m. - 10:00 a.m.	64.7	94.6	58.9
10:00 a.m. - 11:00 a.m.	62.5	89.4	57.9
11:00 a.m. - 12:00 a.m.	61.5	83.7	57.7
12:00 a.m. - 01:00 p.m.	58.4	79.7	51.1
01:00 p.m. - 02:00 p.m.	58.6	81.8	54.2
24 Hours Measured	58.8	94.6	53.3
Standard <sup>1/</sup>	≤70	≤115	-
Evaluation	pass	pass	-
Ldn	61.6	-	-

Remark : 1. <sup>1/</sup> Notification of Ministry of Industry on the Prescription of the Values of Annoyance Sound Level and the sound Level caused by Engaging in a Factory Business B.E. 2548 (Dated 27 December B.E. 2548)





# ANALYSIS REPORT

Analysis No. : NH 236/2566  
Job No. : PCL 1540/66  
Report Date : November 22, 2023

Customer Name : บริษัท โอจี ฟอรัจ (ไทยแลนด์) จำกัด  
Address : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขาม อำเภอศรีราชา จังหวัดชลบุรี 20110  
Sampling Source : Community Noise  
Sampling Location : ทิศตะวันตก (บริเวณบ่อบำบัด รพภ. 1)  
Measured Date : November 19-20, 2023  
Measured Instrument : Sound Level Meter ACO Type 6226 Serial Number 170091

Interval Time	Noise Level (dBA)		
	Leq	Lmax	L90
02:00 p.m. – 03:00 p.m.	57.2	76.3	52.4
03:00 p.m. – 04:00 p.m.	58.2	80.7	52.2
04:00 p.m. – 05:00 p.m.	55.6	76.1	48.2
05:00 p.m. – 06:00 p.m.	56.1	72.8	52.1
06:00 p.m. – 07:00 p.m.	62.9	92.2	51.7
07:00 p.m. – 08:00 p.m.	57.1	89.4	48.2
08:00 p.m. – 09:00 p.m.	53.5	71.1	49.9
09:00 p.m. – 10:00 p.m.	54.4	71.7	51.3
10:00 p.m. – 11:00 p.m.	55.0	74.0	52.3
11:00 p.m. – 00:00 p.m.	51.8	70.2	45.8
00:00 p.m. – 01:00 a.m.	53.9	68.3	50.9
01:00 a.m. – 02:00 a.m.	53.7	68.9	50.7
02:00 a.m. – 03:00 a.m.	54.9	72.3	51.0
03:00 a.m. – 04:00 a.m.	55.3	70.2	53.1
04:00 a.m. – 05:00 a.m.	53.6	84.1	49.2
05:00 a.m. – 06:00 a.m.	53.4	77.8	46.7
06:00 a.m. – 07:00 a.m.	59.6	85.2	51.5
07:00 a.m. – 08:00 a.m.	65.9	86.4	59.2
08:00 a.m. – 09:00 a.m.	62.8	88.4	55.8
09:00 a.m. – 10:00 a.m.	65.9	95.7	59.8
10:00 a.m. – 11:00 a.m.	63.8	91.0	58.6
11:00 a.m. – 12:00 a.m.	63.2	85.3	58.4
12:00 a.m. – 01:00 p.m.	60.6	80.8	52.0
01:00 p.m. – 02:00 p.m.	62.9	83.4	60.6
24 Hours Measured	60.2	95.7	54.6
Standard <sup>1/</sup>	≤70	≤115	-
Evaluation	pass	pass	-
Ldn	62.8	-	-

Remark : 1. <sup>1/</sup> Notification of Ministry of Industry on the Prescription of the Values of Annoyance Sound Level and the sound Level caused by Engaging in a Factory Business B.E. 2548 (Dated 27 December B.E. 2548)

LABORATORY CO., LTD.  
Lab. Supervisor

# ANALYSIS REPORT

Analysis No. : NH 236/2566  
Job No. : PCL 1540/66  
Report Date : November 22, 2023

Customer Name : บริษัท ไอจี พอร์จ (ไทยแลนด์) จำกัด  
Address : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขาม อำเภอสรีราชา จังหวัดชลบุรี 20110  
Sampling Source : Community Noise  
Sampling Location : บริเวณชุมชนหนองยายปู่  
Measured Date : November 13-14, 2023  
Measured Instrument : Sound Level Meter ST-11D Serial Number 820967

Interval Time	Noise Level (dBA)		
	Leq	Lmax	L90
03:00 p.m. - 04:00 p.m.	54.2	68.9	52.1
04:00 p.m. - 05:00 p.m.	54.1	74.9	51.4
05:00 p.m. - 06:00 p.m.	53.9	71.7	51.3
06:00 p.m. - 07:00 p.m.	54.4	68.1	51.5
07:00 p.m. - 08:00 p.m.	52.5	65.5	49.9
08:00 p.m. - 09:00 p.m.	55.5	65.7	54.1
09:00 p.m. - 10:00 p.m.	51.4	67.1	50.2
10:00 p.m. - 11:00 p.m.	52.9	62.8	51.5
11:00 p.m. - 00:00 p.m.	49.0	56.3	47.6
00:00 p.m. - 01:00 a.m.	46.0	57.6	44.4
01:00 a.m. - 02:00 a.m.	46.2	58.4	44.8
02:00 a.m. - 03:00 a.m.	48.1	61.1	46.2
03:00 a.m. - 04:00 a.m.	48.4	64.5	46.4
04:00 a.m. - 05:00 a.m.	49.0	64.0	46.4
05:00 a.m. - 06:00 a.m.	51.6	68.0	48.6
06:00 a.m. - 07:00 a.m.	53.8	73.0	51.6
07:00 a.m. - 08:00 a.m.	54.5	67.7	52.1
08:00 a.m. - 09:00 a.m.	54.0	69.7	51.7
09:00 a.m. - 10:00 a.m.	55.6	71.0	53.2
10:00 a.m. - 11:00 a.m.	58.0	76.2	54.6
11:00 a.m. - 12:00 a.m.	53.8	69.7	51.2
12:00 a.m. - 01:00 p.m.	52.5	77.9	48.9
01:00 p.m. - 02:00 p.m.	53.8	69.9	52.0
02:00 p.m. - 03:00 p.m.	53.7	69.6	51.9
24 Hours Measured	53.3	77.9	50.9
Standard <sup>1/</sup>	≤70	≤115	-
Evaluation	pass	pass	-
Ldn	57.3	-	-

Remark : 1. <sup>1/</sup> Notification of National Environmental Board No. 15 (B.E. 2540) It defines the General sound level Standards (Dated 12 March B.E. 2540)



## ANALYSIS REPORT

Analysis No. : NH 236/2566  
Job No. : PCL 1540/66  
Report Date : November 22, 2023

Customer Name : บริษัท โอจี ฟอรัจ (ไทยแลนด์) จำกัด  
Address : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขาม อำเภอสรีราชา จังหวัดชลบุรี 20110  
Sampling Source : Community Noise  
Sampling Location : บริเวณชุมชนหนองยายปู่  
Measured Date : November 14-15, 2023  
Measured Instrument : Sound Level Meter ST-11D Serial Number 820967

Interval Time	Noise Level (dBA)		
	Leq	Lmax	L90
03:00 p.m. – 04:00 p.m.	55.4	82.7	51.4
04:00 p.m. – 05:00 p.m.	54.5	75.5	51.8
05:00 p.m. – 06:00 p.m.	53.6	70.9	51.4
06:00 p.m. – 07:00 p.m.	57.8	72.1	52.2
07:00 p.m. – 08:00 p.m.	56.2	71.1	52.1
08:00 p.m. – 09:00 p.m.	49.6	67.2	47.2
09:00 p.m. – 10:00 p.m.	57.8	69.0	47.1
10:00 p.m. – 11:00 p.m.	48.6	68.6	45.6
11:00 p.m. – 00:00 p.m.	51.2	63.9	45.9
00:00 p.m. – 01:00 a.m.	47.3	60.9	45.1
01:00 a.m. – 02:00 a.m.	53.1	82.8	45.5
02:00 a.m. – 03:00 a.m.	53.4	68.6	46.7
03:00 a.m. – 04:00 a.m.	47.7	65.2	45.5
04:00 a.m. – 05:00 a.m.	48.6	64.7	45.3
05:00 a.m. – 06:00 a.m.	51.0	68.8	47.2
06:00 a.m. – 07:00 a.m.	55.3	74.0	52.3
07:00 a.m. – 08:00 a.m.	51.9	56.7	50.9
08:00 a.m. – 09:00 a.m.	51.8	53.1	51.1
09:00 a.m. – 10:00 a.m.	52.1	54.9	51.1
10:00 a.m. – 11:00 a.m.	51.0	59.2	50.1
11:00 a.m. – 12:00 a.m.	51.8	58.1	50.7
12:00 a.m. – 01:00 p.m.	52.7	55.7	51.6
01:00 p.m. – 02:00 p.m.	52.2	54.6	51.2
02:00 p.m. – 03:00 p.m.	53.3	76.4	50.8
24 Hours Measured	53.3	82.8	49.9
Standard <sup>1/</sup>	≤70	≤115	-
Evaluation	pass	pass	-
Ldn	59.0	-	-

Remark : 1. <sup>1/</sup> Notification of National Environmental Board No. 15 (B.E. 2540) It defines the General sound level Standards (Dated 12 March B.E. 2540)

LABORATORY CO., LTD.  
[Signature]  
Lab. Supervisor



## ANALYSIS REPORT

Analysis No. : NH 236/2566  
Job No. : PCL 1540/66  
Report Date : November 22, 2023

Customer Name : บริษัท ไอจี พอร์จ (ไทยแลนด์) จำกัด  
Address : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขาม อำเภอศรีราชา จังหวัดชลบุรี 20110  
Sampling Source : Community Noise  
Sampling Location : บริเวณชุมชนหนองยายปู่  
Measured Date : November 15-16, 2023  
Measured Instrument : Sound Level Meter ST-11D Serial Number 820967

Interval Time	Noise Level (dBA)		
	Leq	Lmax	L90
03:00 p.m. - 04:00 p.m.	53.6	72.0	50.7
04:00 p.m. - 05:00 p.m.	53.4	70.0	51.0
05:00 p.m. - 06:00 p.m.	53.4	75.1	51.1
06:00 p.m. - 07:00 p.m.	57.6	69.1	53.1
07:00 p.m. - 08:00 p.m.	54.0	77.9	51.5
08:00 p.m. - 09:00 p.m.	55.9	85.2	49.8
09:00 p.m. - 10:00 p.m.	52.5	80.9	49.1
10:00 p.m. - 11:00 p.m.	50.5	77.4	47.9
11:00 p.m. - 00:00 p.m.	50.0	78.8	47.3
00:00 p.m. - 01:00 a.m.	49.6	81.2	46.4
01:00 a.m. - 02:00 a.m.	57.9	73.4	55.7
02:00 a.m. - 03:00 a.m.	59.1	70.2	57.0
03:00 a.m. - 04:00 a.m.	59.1	69.3	56.9
04:00 a.m. - 05:00 a.m.	58.7	67.2	56.7
05:00 a.m. - 06:00 a.m.	54.2	76.8	52.0
06:00 a.m. - 07:00 a.m.	52.4	70.6	49.1
07:00 a.m. - 08:00 a.m.	52.3	72.5	49.3
08:00 a.m. - 09:00 a.m.	51.4	66.1	48.7
09:00 a.m. - 10:00 a.m.	55.0	77.7	51.7
10:00 a.m. - 11:00 a.m.	54.8	74.9	52.3
11:00 a.m. - 12:00 a.m.	52.4	66.1	49.9
12:00 a.m. - 01:00 p.m.	58.6	92.5	47.9
01:00 p.m. - 02:00 p.m.	53.4	64.6	50.6
02:00 p.m. - 03:00 p.m.	53.7	66.8	50.5
24 Hours Measured	55.3	92.5	52.2
Standard <sup>1/</sup>	≤70	≤115	-
Evaluation	pass	pass	-
Ldn	62.4	-	-

Remark : 1. <sup>1/</sup> Notification of National Environmental Board No. 15 (B.E. 2540) It defines the General sound level Standards (Dated 12 March B.E. 2540)

LABORATORY CO., LTD.  
[Signature]  
Lab. Supervisor

## ANALYSIS REPORT

Analysis No. : NH 236/2566  
Job No. : PCL 1540/66  
Report Date : November 22, 2023

Customer Name : บริษัท โอจี ฟอรัจ (ไทยแลนด์) จำกัด  
Address : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขาม อำเภอศรีราชา จังหวัดชลบุรี 20110  
Sampling Source : Community Noise  
Sampling Location : บริเวณชุมชนหนองยายปู่  
Measured Date : November 16-17, 2023  
Measured Instrument : Sound Level Meter ST-11D Serial Number 820967

Interval Time	Noise Level (dBA)		
	Leq	Lmax	L90
03:00 p.m. – 04:00 p.m.	50.7	66.1	48.5
04:00 p.m. – 05:00 p.m.	48.8	63.0	46.3
05:00 p.m. – 06:00 p.m.	51.1	73.2	48.2
06:00 p.m. – 07:00 p.m.	52.7	80.9	49.2
07:00 p.m. – 08:00 p.m.	50.6	77.4	48.0
08:00 p.m. – 09:00 p.m.	50.0	78.8	47.3
09:00 p.m. – 10:00 p.m.	49.6	81.2	46.4
10:00 p.m. – 11:00 p.m.	57.9	73.4	55.7
11:00 p.m. – 00:00 p.m.	61.0	70.2	59.8
00:00 p.m. – 01:00 a.m.	54.8	68.4	46.0
01:00 a.m. – 02:00 a.m.	49.0	68.5	45.7
02:00 a.m. – 03:00 a.m.	46.6	63.6	43.3
03:00 a.m. – 04:00 a.m.	45.3	63.2	41.9
04:00 a.m. – 05:00 a.m.	44.9	62.9	40.6
05:00 a.m. – 06:00 a.m.	45.3	63.2	41.6
06:00 a.m. – 07:00 a.m.	48.6	68.1	44.1
07:00 a.m. – 08:00 a.m.	48.9	74.2	45.3
08:00 a.m. – 09:00 a.m.	52.3	65.6	49.9
09:00 a.m. – 10:00 a.m.	51.8	53.1	51.1
10:00 a.m. – 11:00 a.m.	52.1	54.9	51.1
11:00 a.m. – 12:00 a.m.	51.0	59.2	50.1
12:00 a.m. – 01:00 p.m.	51.8	58.1	50.7
01:00 p.m. – 02:00 p.m.	52.7	55.7	51.6
02:00 p.m. – 03:00 p.m.	51.7	66.7	50.4
24 Hours Measured	52.7	81.2	50.6
Standard <sup>1/</sup>	≤70	≤115	-
Evaluation	pass	pass	-
Ldn	60.5	-	-

Remark : 1. <sup>1/</sup> Notification of National Environmental Board No. 15 (B.E. 2540) It defines the General sound level Standards (Dated 12 March B.E. 2540)

LABORATORY CO., LTD.  
Lab. Supervisor

## ANALYSIS REPORT

Analysis No. : NH 236/2566  
Job No. : PCL 1540/66  
Report Date : November 22, 2023

Customer Name : บริษัท โอจี ฟอรัจ (ไทยแลนด์) จำกัด  
Address : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขาม อำเภอศรีราชา จังหวัดชลบุรี 20110  
Sampling Source : Community Noise  
Sampling Location : บริเวณชุมชนหนองยายปู่  
Measured Date : November 17-18, 2023  
Measured Instrument : Sound Level Meter ST-11D Serial Number 820967

Interval Time	Noise Level (dBA)		
	Leq	Lmax	L90
03:00 p.m. - 04:00 p.m.	53.7	66.8	50.5
04:00 p.m. - 05:00 p.m.	55.0	85.9	52.4
05:00 p.m. - 06:00 p.m.	54.0	70.8	51.9
06:00 p.m. - 07:00 p.m.	56.5	69.7	53.5
07:00 p.m. - 08:00 p.m.	57.0	70.0	52.9
08:00 p.m. - 09:00 p.m.	53.8	73.7	51.1
09:00 p.m. - 10:00 p.m.	54.0	83.2	49.7
10:00 p.m. - 11:00 p.m.	52.0	76.3	50.0
11:00 p.m. - 00:00 p.m.	54.4	84.1	49.5
00:00 p.m. - 01:00 a.m.	52.7	78.3	47.8
01:00 a.m. - 02:00 a.m.	50.8	80.6	47.3
02:00 a.m. - 03:00 a.m.	49.3	62.7	47.0
03:00 a.m. - 04:00 a.m.	50.7	80.0	47.6
04:00 a.m. - 05:00 a.m.	51.8	68.8	48.4
05:00 a.m. - 06:00 a.m.	53.7	68.0	50.1
06:00 a.m. - 07:00 a.m.	55.6	71.8	52.8
07:00 a.m. - 08:00 a.m.	55.5	76.5	53.1
08:00 a.m. - 09:00 a.m.	57.5	76.5	55.1
09:00 a.m. - 10:00 a.m.	57.7	81.5	55.1
10:00 a.m. - 11:00 a.m.	56.6	83.0	54.0
11:00 a.m. - 12:00 a.m.	55.9	77.3	53.1
12:00 a.m. - 01:00 p.m.	54.7	72.5	51.0
01:00 p.m. - 02:00 p.m.	56.8	75.5	54.7
02:00 p.m. - 03:00 p.m.	58.0	83.2	53.5
24 Hours Measured	55.1	85.9	52.0
Standard <sup>V</sup>	≤70	≤115	-
Evaluation	pass	pass	-
Ldn	59.6	-	-

Remark : 1. <sup>V</sup> Notification of National Environmental Board No. 15 (B.E. 2540) It defines the General sound level Standards (Dated 12 March B.E. 2540)

LABORATORY  
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LABORATORY CO., LTD.  
Lab. Supervisor



## ANALYSIS REPORT

Analysis No. : NH 236/2566  
Job No. : PCL 1540/66  
Report Date : November 22, 2023

Customer Name : บริษัท ไอจี ฟอรัจ (ไทยแลนด์) จำกัด  
Address : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขาม อำเภอศรีราชา จังหวัดชลบุรี 20110  
Sampling Source : Community Noise  
Sampling Location : บริเวณชุมชนหนองยายปู่  
Measured Date : November 18-19, 2023  
Measured Instrument : Sound Level Meter ST-11D Serial Number 820967

Interval Time	Noise Level (dBA)		
	Leq	Lmax	L90
03:00 p.m. - 04:00 p.m.	55.5	67.9	53.6
04:00 p.m. - 05:00 p.m.	54.7	79.6	52.4
05:00 p.m. - 06:00 p.m.	53.1	72.0	50.1
06:00 p.m. - 07:00 p.m.	54.7	69.5	52.6
07:00 p.m. - 08:00 p.m.	53.6	68.7	51.9
08:00 p.m. - 09:00 p.m.	52.3	63.7	50.4
09:00 p.m. - 10:00 p.m.	56.2	79.0	49.7
10:00 p.m. - 11:00 p.m.	50.7	67.2	48.7
11:00 p.m. - 00:00 p.m.	49.2	64.0	47.5
00:00 p.m. - 01:00 a.m.	50.1	82.0	46.9
01:00 a.m. - 02:00 a.m.	49.4	66.0	47.3
02:00 a.m. - 03:00 a.m.	49.8	68.5	47.2
03:00 a.m. - 04:00 a.m.	48.9	62.3	46.7
04:00 a.m. - 05:00 a.m.	49.9	70.0	47.3
05:00 a.m. - 06:00 a.m.	52.0	66.1	49.1
06:00 a.m. - 07:00 a.m.	54.6	70.2	51.7
07:00 a.m. - 08:00 a.m.	54.6	70.2	51.8
08:00 a.m. - 09:00 a.m.	54.8	69.5	52.1
09:00 a.m. - 10:00 a.m.	55.5	76.3	53.2
10:00 a.m. - 11:00 a.m.	58.9	72.3	56.4
11:00 a.m. - 12:00 a.m.	58.5	72.1	55.5
12:00 a.m. - 01:00 p.m.	52.8	75.1	49.7
01:00 p.m. - 02:00 p.m.	56.3	67.2	54.2
02:00 p.m. - 03:00 p.m.	60.0	87.7	54.5
24 Hours Measured	54.7	87.7	51.8
Standard <sup>1/</sup>	≤70	≤115	-
Evaluation	pass	pass	-
Ldn	58.8	-	-

Remark : 1. <sup>1/</sup> Notification of National Environmental Board No. 15 (B.E. 2540) It defines the General sound level Standards (Dated 12 March B.E. 2540)

LABORATORY  
[Signature]  
Lab. Supervisor

# ANALYSIS REPORT

Analysis No. : NH 236/2566  
Job No. : PCL 1540/66  
Report Date : November 22, 2023

Customer Name : บริษัท โอจี ฟอรัจ (ไทยแลนด์) จำกัด  
Address : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขาม อำเภอสรีราชา จังหวัดชลบุรี 20110  
Sampling Source : Community Noise  
Sampling Location : บริเวณชุมชนหนองยายปู่  
Measured Date : November 19-20, 2023  
Measured Instrument : Sound Level Meter ST-11D Serial Number 820967

Interval Time	Noise Level (dBA)		
	Leq	Lmax	L90
03:00 p.m. – 04:00 p.m.	56.2	71.8	53.5
04:00 p.m. – 05:00 p.m.	55.8	67.8	53.3
05:00 p.m. – 06:00 p.m.	53.1	71.0	50.5
06:00 p.m. – 07:00 p.m.	52.5	65.9	50.1
07:00 p.m. – 08:00 p.m.	51.1	65.2	48.9
08:00 p.m. – 09:00 p.m.	51.0	66.7	49.1
09:00 p.m. – 10:00 p.m.	48.9	62.8	46.8
10:00 p.m. – 11:00 p.m.	48.9	64.3	46.5
11:00 p.m. – 00:00 p.m.	47.8	69.7	45.1
00:00 p.m. – 01:00 a.m.	46.4	64.2	43.2
01:00 a.m. – 02:00 a.m.	44.9	56.5	42.2
02:00 a.m. – 03:00 a.m.	44.7	57.8	41.6
03:00 a.m. – 04:00 a.m.	46.0	64.2	42.8
04:00 a.m. – 05:00 a.m.	48.6	65.8	45.1
05:00 a.m. – 06:00 a.m.	51.0	76.3	47.1
06:00 a.m. – 07:00 a.m.	53.5	70.9	51.1
07:00 a.m. – 08:00 a.m.	57.0	86.4	52.2
08:00 a.m. – 09:00 a.m.	55.5	72.5	52.6
09:00 a.m. – 10:00 a.m.	56.1	74.3	54.2
10:00 a.m. – 11:00 a.m.	57.4	74.0	55.3
11:00 a.m. – 12:00 a.m.	54.8	70.1	52.8
12:00 a.m. – 01:00 p.m.	53.0	72.3	50.0
01:00 p.m. – 02:00 p.m.	53.4	67.0	51.4
02:00 p.m. – 03:00 p.m.	54.6	70.9	52.1
24 Hours Measured	53.2	86.4	50.6
Standard <sup>1/</sup>	≤70	≤115	-
Evaluation	pass	pass	-
Ldn	56.2	-	-

Remark : 1. <sup>1/</sup> Notification of National Environmental Board No. 15 (B.E. 2540) It defines the General sound level Standards (Dated 12 March B.E. 2540)

LABORATORY CO., LTD.  
Lab. Supervisor

## ภาคผนวก ค-2

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ใบรายงานผลการตรวจวัดคุณภาพอากาศจากปล่องระบาย





## ANALYSIS REPORT

Analysis No. : Lab-S 238/2566  
Report Date : December 7, 2023

CUSTOMER NAME : บริษัท ไอจี พอร์จ (ไทยแลนด์) จำกัด  
ADDRESS : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขาม อำเภอสรีราชา จังหวัดชลบุรี 20110  
SAMPLING SOURCE : ปล่องระบายอากาศ เครื่องทุบขึ้นรูป 1600T Line 1  
SAMPLING DATE : November 17, 2023 SAMPLING TIME : 03:00 PM - 03:42 PM  
RECEIVED DATE : November 20, 2023 ANALYTICAL DATE : November 20 - December 6, 2023  
SAMPLING METHOD : US. EPA Method SAMPLE CONDITION : Good  
FUEL TYPE : - COMBUSTION SYSTEM : Process  
SAMPLING BY : Mr. Jeerawat Promsaengsai GPS. COORDINATES : 47P 719782 , 1450621

Item	Description	Unit	Method of Analysis	Actual Condition <sup>3/</sup>	Standard <sup>1/</sup>	Evaluation
1.	Stack Height	m	Measuring Tape	8.00	-	-
2.	Stack Diameter	m	Measuring Tape	0.60x0.60	-	-
3.	Temperature in Stack	°C	US. EPA Method 2	30.00	-	-
4.	Pressure Stack	mm.Hg	US. EPA Method 2	760.51	-	-
5.	Air Velocity	m/s	US. EPA Method 2	6.01	-	-
6.	Flow Rate	Nm <sup>3</sup> /hr	US. EPA Method 2	7,512.25	-	-
7.	Oxygen Rate	%	US. EPA Method 3	20.60	-	-
8.	Carbon dioxide Rate	%	US. EPA Method 3	<0.01	-	-
9.	Moisture	%	US. EPA Method 4	2.58	-	-
10.	Total Suspended Particulate	mg/m <sup>3</sup>	US. EPA Method 5/ Isokinetic, Gravimetric	0.921	≤400	Pass
		Kg/rai/day <sup>2/</sup>		0.00267	-	-
		Kg/day <sup>2/</sup>		0.16939	-	-

Remark : 1. <sup>1/</sup> Notification of Ministry of Industry on the Prescription of the Content Values of Air Contaminants Emitted from the Factory B.E. 2549  
: 2. <sup>2/</sup> Criteria of Industrial Estate Authority of Thailand No.79/2549  
: 3. <sup>3/</sup> Analyze results by Stack Consulting Co., Ltd. Registration No.2-339  
: 4. ขนาดพื้นที่ 63.33 ไร่



Analyst

Laboratory Supervisor

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## ANALYSIS REPORT

Analysis No. : Lab-S 238/2566  
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SAMPLING SOURCE : ปล่องระบายอากาศ เครื่องทุบขึ้นรูป 1600T Line 1 (ต่อ)  
SAMPLING DATE : November 17, 2023 SAMPLING TIME : 03:00 PM - 03:42 PM  
RECEIVED DATE : November 20, 2023 ANALYTICAL DATE : November 20 - December 6, 2023  
SAMPLING METHOD : US. EPA Method SAMPLE CONDITION : Good  
FUEL TYPE : - COMBUSTION SYSTEM : Process  
SAMPLING BY : Mr. Jeerawat Promsaengsai GPS. COORDINATES : 47P 719782 , 1450621

Item	Description	Unit	Method of Analysis	Actual Condition <sup>3/</sup>	Standard <sup>1/</sup>	Evaluation
11.	Sulfur dioxide	ppm	US. EPA Method 6C / Electrochemical sensor	0.2	≤500	Pass
		Kg/rai/day <sup>2/</sup>		0.00152	-	-
		Kg/day <sup>2/</sup>		0.09639	-	-

Remark : 1. <sup>1/</sup> Notification of Ministry of Industry on the Prescription of the Content Values of Air Contaminants Emitted from the Factory B.E. 2549  
: 2. <sup>2/</sup> Criteria of Industrial Estate Authority of Thailand No.79/2549  
: 3. <sup>3/</sup> Analyze results by Stack Consulting Co., Ltd. Registration No.3-339  
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RECEIVED DATE : November 20, 2023 ANALYTICAL DATE : November 20 - December 6, 2023  
SAMPLING METHOD : US. EPA Method SAMPLE CONDITION : Good  
FUEL TYPE : - COMBUSTION SYSTEM : Process  
SAMPLING BY : Mr. Jeerawat Promsaengsai GPS. COORDINATES : 47P 719782 , 1450621

Item	Description	Unit	Method of Analysis	Actual Condition <sup>3/</sup>	Standard <sup>1/</sup>	Evaluation
12.	Oxide of Nitrogen	ppm	US. EPA Method 7E /	1	-	-
		Kg/rai/day <sup>2/</sup>	Electrochemical sensor	0.00547	-	-
		Kg/day <sup>2/</sup>		0.34611	-	-

Remark : 1. <sup>1/</sup> Notification of Ministry of Industry on the Prescription of the Content Values of Air Contaminants Emitted from the Factory B.E. 2549  
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FUEL TYPE : - COMBUSTION SYSTEM : Process  
SAMPLING BY : Mr. Jeerawat Promsaengsai GPS. COORDINATES : 47P 719782 , 1450621

Item	Description	Unit	Method of Analysis	Actual Condition <sup>3/</sup>	Standard <sup>1/</sup>	Evaluation
13.	Carbon monoxide	ppm	US. EPA Method 10/	2	≤870	Pass
		Kg/rai/day <sup>2/</sup>	Electrochemical sensor	0.00665	-	-
		Kg/day <sup>2/</sup>		0.42141	-	-

Remark : 1. <sup>1/</sup> Notification of Ministry of Industry on the Prescription of the Content Values of Air Contaminants Emitted from the Factory B.E. 2549  
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SAMPLING SOURCE : ปล่องระบายอากาศ เครื่องทุบขึ้นรูป 1600 Line 2  
SAMPLING DATE : November 17, 2023 SAMPLING TIME : 02:10 PM - 02:52 PM  
RECEIVED DATE : November 20, 2023 ANALYTICAL DATE : November 20 - December 6, 2023  
SAMPLING METHOD : US. EPA Method SAMPLE CONDITION : Good  
FUEL TYPE : - COMBUSTION SYSTEM : Process  
SAMPLING BY : Mr. Jeerawat Promsaengsai GPS. COORDINATES : 47P 719785 , 1450631

Item	Description	Unit	Method of Analysis	Actual Condition <sup>3/</sup>	Standard <sup>1/</sup>	Evaluation
1.	Stack Height	m	Measuring Tape	8.00	-	-
2.	Stack Diameter	m	Measuring Tape	0.60x0.60	-	-
3.	Temperature in Stack	°C	US. EPA Method 2	31.00	-	-
4.	Pressure Stack	mm.Hg	US. EPA Method 2	761.91	-	-
5.	Air Velocity	m/s	US. EPA Method 2	6.02	-	-
6.	Flow Rate	Nm <sup>3</sup> /hr	US. EPA Method 2	7,513.81	-	-
7.	Oxygen Rate	%	US. EPA Method 3	20.50	-	-
8.	Carbon dioxide Rate	%	US. EPA Method 3	<0.01	-	-
9.	Moisture	%	US. EPA Method 4	2.58	-	-
10.	Total Suspended Particulate	mg/m <sup>3</sup>	US. EPA Method 5/ Isokinetic, Gravimetric	0.576	≤400	Pass
		Kg/rai/day <sup>2/</sup>		0.00167	-	-
		Kg/day <sup>2/</sup>		0.10596	-	-

Remark : 1. <sup>1/</sup> Notification of Ministry of Industry on the Prescription of the Content Values of Air Contaminants Emitted from the Factory B.E. 2549  
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ADDRESS : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขาม อำเภอศรีราชา จังหวัดชลบุรี 20110  
SAMPLING SOURCE : ปล่องระบายอากาศ เครื่องทุบขึ้นรูป 1600 Line 2 (ต่อ)  
SAMPLING DATE : November 17, 2023 SAMPLING TIME : 02:10 PM - 02:52 PM  
RECEIVED DATE : November 20, 2023 ANALYTICAL DATE : November 20 - December 6, 2023  
SAMPLING METHOD : US. EPA Method SAMPLE CONDITION : Good  
FUEL TYPE : - COMBUSTION SYSTEM : Process  
SAMPLING BY : Mr. Jeerawat Promsaengsai GPS. COORDINATES : 47P 719785 , 1450631

Item	Description	Unit	Method of Analysis	Actual Condition <sup>3/</sup>	Standard <sup>1/</sup>	Evaluation
11.	Sulfur dioxide	ppm	US. EPA Method 6C / Electrochemical sensor	0.2	≤500	Pass
		Kg/rai/day <sup>2/</sup>		0.00152	-	-
		Kg/day <sup>2/</sup>		0.09641	-	-

Remark : 1. <sup>1/</sup> Notification of Ministry of Industry on the Prescription of the Content Values of Air Contaminants Emitted from the Factory B.E. 2549  
: 2. <sup>2/</sup> Criteria of Industrial Estate Authority of Thailand No.79/2549  
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## ANALYSIS REPORT

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Report Date : December 7, 2023

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ADDRESS : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขาม อำเภอศรีราชา จังหวัดชลบุรี 20110  
SAMPLING SOURCE : ปล่องระบายอากาศ เครื่องทุบขึ้นรูป 1600 Line 2 (ต่อ)  
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SAMPLING METHOD : US. EPA Method SAMPLE CONDITION : Good  
FUEL TYPE : - COMBUSTION SYSTEM : Process  
SAMPLING BY : Mr. Jeerawat Promsaengsai GPS. COORDINATES : 47P 719785 , 1450631

Item	Description	Unit	Method of Analysis	Actual Condition <sup>3/</sup>	Standard <sup>1/</sup>	Evaluation
12.	Oxide of Nitrogen	ppm	US. EPA Method 7E / Electrochemical sensor	<0.1	-	-
		Kg/rai/day <sup>2/</sup>		<0.00055	-	-
		Kg/day <sup>2/</sup>		<0.03462	-	-

Remark : 1. <sup>1/</sup> Notification of Ministry of Industry on the Prescription of the Content Values of Air Contaminants Emitted from the Factory B.E. 2549  
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: 3. <sup>3/</sup> Analyze results by Stack Consulting Co., Ltd. Registration No.จ-339  
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บริษัท สแตค คอนซัลติ้ง จำกัด

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## ANALYSIS REPORT

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SAMPLING SOURCE : ปล่องระบายอากาศ เครื่องหุงชิ้นรูป 1600 Line 2 (ต่อ)  
SAMPLING DATE : November 17, 2023 SAMPLING TIME : 02:10 PM - 02:52 PM  
RECEIVED DATE : November 20, 2023 ANALYTICAL DATE : November 20 - December 6, 2023  
SAMPLING METHOD : US. EPA Method SAMPLE CONDITION : Good  
FUEL TYPE : - COMBUSTION SYSTEM : Process  
SAMPLING BY : Mr. Jeerawat Promsaengsai GPS. COORDINATES : 47P 719782 , 1450621

Item	Description	Unit	Method of Analysis	Actual Condition <sup>3/</sup>	Standard <sup>1/</sup>	Evaluation
13.	Carbon monoxide	ppm	US. EPA Method 10/	2	≤870	Pass
		Kg/rai/day <sup>2/</sup>	Electrochemical sensor	0.00666	-	-
		Kg/day <sup>2/</sup>		0.42150	-	-

Remark : 1. <sup>1/</sup> Notification of Ministry of Industry on the Prescription of the Content Values of Air Contaminants Emitted from the Factory B.E. 2549  
: 2. <sup>2/</sup> Criteria of Industrial Estate Authority of Thailand No.79/2549  
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Analyst

Laboratory Supervisor

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## ANALYSIS REPORT

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SAMPLING SOURCE : ปล่องระบายอากาศ เครื่องทุบขึ้นรูป 3000T  
SAMPLING DATE : November 17, 2023 SAMPLING TIME : 01:10 PM - 01:46 PM  
RECEIVED DATE : November 20, 2023 ANALYTICAL DATE : November 20 - December 6, 2023  
SAMPLING METHOD : US. EPA Method SAMPLE CONDITION : Good  
FUEL TYPE : - COMBUSTION SYSTEM : Process  
SAMPLING BY : Mr. Jeerawat Promsaengsai GPS. COORDINATES : 47P 719803 , 1450657

Item	Description	Unit	Method of Analysis	Actual Condition <sup>3/</sup>	Standard <sup>1/</sup>	Evaluation
1.	Stack Height	m	Measuring Tape	8.00	-	-
2.	Stack Diameter	m	Measuring Tape	0.60x0.60	-	-
3.	Temperature in Stack	°C	US. EPA Method 2	29.00	-	-
4.	Pressure Stack	mm.Hg	US. EPA Method 2	759.63	-	-
5.	Air Velocity	m/s	US. EPA Method 2	8.50	-	-
6.	Flow Rate	Nm <sup>3</sup> /hr	US. EPA Method 2	10,647.50	-	-
7.	Oxygen Rate	%	US. EPA Method 3	20.90	-	-
8.	Carbon dioxide Rate	%	US. EPA Method 3	<0.01	-	-
9.	Moisture	%	US. EPA Method 4	2.40	-	-
10.	Total Suspended Particulate	mg/m <sup>3</sup>	US. EPA Method 5/	0.243	≤400	Pass
		Kg/rai/day <sup>2/</sup>	Isokinetic, Gravimetric	0.00100	-	-
		Kg/day <sup>2/</sup>		0.06335	-	-

Remark : 1. <sup>1/</sup> Notification of Ministry of Industry on the Prescription of the Content Values of Air Contaminants Emitted from the Factory B.E. 2549  
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บริษัท สแตค คอนซัลติ้ง จำกัด

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RECEIVED DATE : November 20, 2023 ANALYTICAL DATE : November 20 - December 6, 2023  
SAMPLING METHOD : US. EPA Method SAMPLE CONDITION : Good  
FUEL TYPE : - COMBUSTION SYSTEM : Process  
SAMPLING BY : Mr. Jeerawat Promsaengsai GPS. COORDINATES : 47P 719803 , 1450657

Item	Description	Unit	Method of Analysis	Actual Condition <sup>3/</sup>	Standard <sup>1/</sup>	Evaluation
11.	Sulfur dioxide	ppm	US. EPA Method 6C /	1	≤500	Pass
		Kg/rai/day <sup>2/</sup>	Electrochemical sensor	0.01079	-	-
		Kg/day <sup>2/</sup>		0.68311	-	-

Remark : 1. <sup>1/</sup> Notification of Ministry of Industry on the Prescription of the Content Values of Air Contaminants Emitted from the Factory B.E. 2549  
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FUEL TYPE : - COMBUSTION SYSTEM : Process  
SAMPLING BY : Mr. Jeerawat Promsaengsai GPS. COORDINATES : 47P 719803 , 1450657

Item	Description	Unit	Method of Analysis	Actual Condition <sup>3/</sup>	Standard <sup>1/</sup>	Evaluation
12.	Oxide of Nitrogen	ppm	US. EPA Method 7E / Electrochemical sensor	1	-	-
		Kg/rai/day <sup>2/</sup>		0.00775	-	-
		Kg/day <sup>2/</sup>		0.49056	-	-

Remark : 1. <sup>1/</sup> Notification of Ministry of Industry on the Prescription of the Content Values of Air Contaminants Emitted from the Factory B.E. 2549  
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บริษัท สแตค คอนซัลติ้ง จำกัด

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CUSTOMER NAME : บริษัท ไอจี พอร์จ (ไทยแลนด์) จำกัด  
ADDRESS : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขาม อำเภอศรีราชา จังหวัดชลบุรี 20110  
SAMPLING SOURCE : ปล่องระบายอากาศ เครื่องทุบขึ้นรูป 3000T (ต่อ)  
SAMPLING DATE : November 17, 2023 SAMPLING TIME : 01:10 PM - 01:46 PM  
RECEIVED DATE : November 20, 2023 ANALYTICAL DATE : November 20 - December 6, 2023  
SAMPLING METHOD : US. EPA Method SAMPLE CONDITION : Good  
FUEL TYPE : - COMBUSTION SYSTEM : Process  
SAMPLING BY : Mr. Jeerawat Promsaengsai GPS. COORDINATES : 47P 719803 , 1450657

Item	Description	Unit	Method of Analysis	Actual Condition <sup>3/</sup>	Standard <sup>1/</sup>	Evaluation
13.	Carbon monoxide	ppm	US. EPA Method 10/	3	≤870	Pass
		Kg/rai/day <sup>2/</sup>	Electrochemical sensor	0.01415	-	-
		Kg/day <sup>2/</sup>		0.89593	-	-

Remark : 1. <sup>1/</sup> Notification of Ministry of Industry on the Prescription of the Content Values of Air Contaminants Emitted from the Factory B.E. 2549  
: 2. <sup>2/</sup> Criteria of Industrial Estate Authority of Thailand No.79/2549  
: 3. <sup>3/</sup> Analyze results by Stack Consulting Co., Ltd. Registration No.2-339  
: 4. ขนาดพื้นที่ 63.33 ไร่

บริษัท สแตค คอนซัลติ้ง จำกัด

Analyst

Laboratory Supervisor

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## ANALYSIS REPORT

Analysis No. : Lab-S 238/2566  
Report Date : December 7, 2023

CUSTOMER NAME : บริษัท ไอจี พอร์จ (ไทยแลนด์) จำกัด  
ADDRESS : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขาม อำเภอสรีราชา จังหวัดชลบุรี 20110  
SAMPLING SOURCE : ปล่องระบายอากาศ เครื่องขัดผิว 4500T (Shot Blast)  
SAMPLING DATE : November 17, 2023 SAMPLING TIME : 09:10 AM - 09:46 AM  
RECEIVED DATE : November 20, 2023 ANALYTICAL DATE : November 20 - December 6, 2023  
SAMPLING METHOD : US. EPA Method SAMPLE CONDITION : Good  
FUEL TYPE : - COMBUSTION SYSTEM : Process  
SAMPLING BY : Mr. Jeerawat Promsaengsai GPS. COORDINATES : 47P 719631 , 1450578

Item	Description	Unit	Method of Analysis	Actual Condition <sup>3/</sup>	Standard <sup>1/</sup>	Evaluation
1.	Stack Height	m	Measuring Tape	6.00	-	-
2.	Stack Diameter	m	Measuring Tape	0.35	-	-
3.	Temperature in Stack	°C	US. EPA Method 2	45.00	-	-
4.	Pressure Stack	mm.Hg	US. EPA Method 2	760.16	-	-
5.	Air Velocity	m/s	US. EPA Method 2	27.57	-	-
6.	Flow Rate	Nm <sup>3</sup> /hr	US. EPA Method 2	8,767.01	-	-
7.	Oxygen Rate	%	US. EPA Method 3	20.80	-	-
8.	Carbon dioxide Rate	%	US. EPA Method 3	<0.01	-	-
9.	Moisture	%	US. EPA Method 4	2.27	-	-
10.	Total Suspended Particulate	mg/m <sup>3</sup> Kg/rai/day <sup>2/</sup> Kg/day <sup>2/</sup>	US. EPA Method 5/ Isokinetic, Gravimetric	0.345 0.34395 21.78215	≤400 - -	Pass - -

Remark : 1. <sup>1/</sup> Notification of Ministry of Industry on the Prescription of the Content Values of Air Contaminants Emitted from the Factory B.E. 2549  
: 2. <sup>2/</sup> Criteria of Industrial Estate Authority of Thailand No.79/2549  
: 3. <sup>3/</sup> Analyze results by Stack Consulting Co., Ltd. Registration No.จ-339  
: 4. ขนาดพื้นที่ 63.33 ไร่

บริษัท สแตค คอนซัลติ้ง จำกัด

Analyst

Laboratory Supervisor

Do not copy or modify.



## ANALYSIS REPORT

Analysis No. : Lab-S 238/2566  
Report Date : December 7, 2023

CUSTOMER NAME : บริษัท ไอจี พอร์จ (ไทยแลนด์) จำกัด  
ADDRESS : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขาม อำเภอสรีราชา จังหวัดชลบุรี 20110  
SAMPLING SOURCE : ปล่องระบายอากาศ เครื่องขัดผิว 4500T (Shot Blast) (ต่อ)  
SAMPLING DATE : November 17, 2023 SAMPLING TIME : 09:10 AM - 09:46 AM  
RECEIVED DATE : November 20, 2023 ANALYTICAL DATE : November 20 - December 6, 2023  
SAMPLING METHOD : US. EPA Method SAMPLE CONDITION : Good  
FUEL TYPE : - COMBUSTION SYSTEM : Process  
SAMPLING BY : Mr. Jeerawat Promsaengsai GPS. COORDINATES : 47P 719631 , 1450578

Item	Description	Unit	Method of Analysis	Actual Condition <sup>3/</sup>	Standard <sup>1/</sup>	Evaluation
11.	Sulfur dioxide	ppm	US. EPA Method 6C /	1	≤500	Pass
		Kg/ral/day <sup>2/</sup>	Electrochemical sensor	2.61245	-	-
		Kg/day <sup>2/</sup>		165.44646	-	-

Remark : 1. <sup>1/</sup> Notification of Ministry of Industry on the Prescription of the Content Values of Air Contaminants Emitted from the Factory B.E. 2549  
: 2. <sup>2/</sup> Criteria of Industrial Estate Authority of Thailand No.79/2549  
: 3. <sup>3/</sup> Analyze results by Stack Consulting Co., Ltd. Registration No.จ-339  
: 4. ขนาดพื้นที่ 63.33 ไร่

บริษัท สแตค คอนซัลติ้ง จำกัด

Analyst

Laboratory Supervisor

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## ANALYSIS REPORT

Analysis No. : Lab-S 238/2566  
Report Date : December 7, 2023

CUSTOMER NAME : บริษัท ไอจี พอร์จ (ไทยแลนด์) จำกัด  
ADDRESS : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขาม อำเภอศรีราชา จังหวัดชลบุรี 20110  
SAMPLING SOURCE : ปล่องระบายอากาศ เครื่องขัดผิว 4500T (Shot Blast) (ต่อ)  
SAMPLING DATE : November 17, 2023 SAMPLING TIME : 09:10 AM - 09:46 AM  
RECEIVED DATE : November 20, 2023 ANALYTICAL DATE : November 20 - December 6, 2023  
SAMPLING METHOD : US. EPA Method SAMPLE CONDITION : Good  
FUEL TYPE : - COMBUSTION SYSTEM : Process  
SAMPLING BY : Mr. Jeerawat Promsaengsai GPS. COORDINATES : 47P 719631 , 1450578

Item	Description	Unit	Method of Analysis	Actual Condition <sup>3/</sup>	Standard <sup>1/</sup>	Evaluation
12.	Carbon monoxide	ppm	US. EPA Method 10/	7	≤870	Pass
		Kg/rai/day <sup>2/</sup>	Electrochemical sensor	7.99474	-	-
		Kg/day <sup>2/</sup>		506.30697	-	-

Remark : 1. <sup>1/</sup> Notification of Ministry of Industry on the Prescription of the Content Values of Air Contaminants Emitted from the Factory B.E. 2549  
: 2. <sup>2/</sup> Criteria of Industrial Estate Authority of Thailand No.79/2549  
: 3. <sup>3/</sup> Analyze results by Stack Consulting Co., Ltd. Registration No.2-339  
: 4. ขนาดพื้นที่ 63.33 ไร่

บริษัท สแตค คอนซัลติ้ง จำกัด

Analyst

Laboratory Supervisor

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## ANALYSIS REPORT

Analysis No. : Lab-S 238/2566  
Report Date : December 7, 2023

CUSTOMER NAME : บริษัท ไอจี พอร์จ (ไทยแลนด์) จำกัด  
ADDRESS : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขาม อำเภอสรีราชา จังหวัดชลบุรี 20110  
SAMPLING SOURCE : ปล่องระบายอากาศ เครื่องทุบชิ้นรูป 4500T  
SAMPLING DATE : November 17, 2023 SAMPLING TIME : 10:00 AM - 11:00 AM  
RECEIVED DATE : November 20, 2023 ANALYTICAL DATE : November 20 - December 6, 2023  
SAMPLING METHOD : US. EPA Method SAMPLE CONDITION : Good  
FUEL TYPE : - COMBUSTION SYSTEM : Process  
SAMPLING BY : Mr. Jeerawat Promsaengsai GPS. COORDINATES : 47P 719674 , 1450619

Item	Description	Unit	Method of Analysis	Actual Condition <sup>3/</sup>	Standard <sup>1/</sup>	Evaluation
1.	Stack Height	m	Measuring Tape	10.00	-	-
2.	Stack Diameter	m	Measuring Tape	1.00	-	-
3.	Temperature in Stack	°C	US. EPA Method 2	23.00	-	-
4.	Pressure Stack	mm.Hg	US. EPA Method 2	758.98	-	-
5.	Air Velocity	m/s	US. EPA Method 2	8.41	-	-
6.	Flow Rate	Nm <sup>3</sup> /hr	US. EPA Method 2	23,417.23	-	-
7.	Oxygen Rate	%	US. EPA Method 3	20.90	-	-
8.	Carbon dioxide Rate	%	US. EPA Method 3	<0.01	-	-
9.	Moisture	%	US. EPA Method 4	2.73	-	-
10.	Total Suspended Particulate	mg/m <sup>3</sup> Kg/rai/day <sup>2/</sup> Kg/day <sup>2/</sup>	US. EPA Method 5/ Isokinetic, Gravimetric	0.367 0.00333 0.21060	≤400 - -	Pass - -

Remark : 1. <sup>1/</sup> Notification of Ministry of Industry on the Prescription of the Content Values of Air Contaminants Emitted from the Factory B.E. 2549  
: 2. <sup>2/</sup> Criteria of Industrial Estate Authority of Thailand No.79/2549  
: 3. <sup>3/</sup> Analyze results by Stack Consulting Co., Ltd. Registration No.2-339  
: 4. ขนาดพื้นที่ 63.33 ไร่

บริษัท สแตค คอนซัลติ้ง จำกัด

Analyst

Laboratory Supervisor

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## ANALYSIS REPORT

Analysis No. : Lab-S 238/2566

Report Date : December 7, 2023

CUSTOMER NAME : บริษัท ไอจี พอร์จ (ไทยแลนด์) จำกัด  
ADDRESS : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขาม อำเภอศรีราชา จังหวัดชลบุรี 20110  
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SAMPLING DATE : November 17, 2023 SAMPLING TIME : 10:00 AM - 11:00 AM  
RECEIVED DATE : November 20, 2023 ANALYTICAL DATE : November 20 - December 6, 2023  
SAMPLING METHOD : US. EPA Method SAMPLE CONDITION : Good  
FUEL TYPE : - COMBUSTION SYSTEM : Process  
SAMPLING BY : Mr. Jeerawat Promsaengsai GPS. COORDINATES : 47P 719674 , 1450619

Item	Description	Unit	Method of Analysis	Actual Condition <sup>3/</sup>	Standard <sup>1/</sup>	Evaluation
11.	Sulfur dioxide	ppm	US. EPA Method 6C /	0.20	≤500	Pass
		Kg/rai/day <sup>2/</sup>	Electrochemical sensor	0.00475	-	-
		Kg/day <sup>2/</sup>		0.30070	-	-

Remark : 1. <sup>1/</sup> Notification of Ministry of Industry on the Prescription of the Content Values of Air Contaminants Emitted from the Factory B.E. 2549  
: 2. <sup>2/</sup> Criteria of Industrial Estate Authority of Thailand No.79/2549  
: 3. <sup>3/</sup> Analyze results by Stack Consulting Co., Ltd. Registration No.จ-339  
: 4. ขนาดพื้นที่ 63.33 ไร่

บริษัท สแตค คอนซัลติ้ง จำกัด

Analyst

Laboratory Supervisor

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## ANALYSIS REPORT

Analysis No. : Lab-S 238/2566  
Report Date : December 7, 2023

CUSTOMER NAME : บริษัท ไอจี พอร์จ (ไทยแลนด์) จำกัด  
ADDRESS : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขาม อำเภอสรีราชา จังหวัดชลบุรี 20110  
SAMPLING SOURCE : ปล่องระบายอากาศ เครื่องทุบชิ้นรูป 4500T (ต่อ)  
SAMPLING DATE : November 17, 2023 SAMPLING TIME : 10:00 AM - 11:00 AM  
RECEIVED DATE : November 20, 2023 ANALYTICAL DATE : November 20 - December 6, 2023  
SAMPLING METHOD : US. EPA Method SAMPLE CONDITION : Good  
FUEL TYPE : - COMBUSTION SYSTEM : Process  
SAMPLING BY : Mr. Jeerawat Promsaengsai GPS. COORDINATES : 47P 719674 , 1450619

Item	Description	Unit	Method of Analysis	Actual Condition <sup>3/</sup>	Standard <sup>1/</sup>	Evaluation
12.	Oxide of Nitrogen	ppm	US. EPA Method 7E /	0.10	-	-
		Kg/rai/day <sup>2/</sup>	Electrochemical sensor	0.00103	-	-
		Kg/day <sup>2/</sup>		0.06542	-	-

Remark : 1. <sup>1/</sup> Notification of Ministry of Industry on the Prescription of the Content Values of Air Contaminants Emitted from the Factory B.E. 2549  
: 2. <sup>2/</sup> Criteria of Industrial Estate Authority of Thailand No.79/2549  
: 3. <sup>3/</sup> Analyze results by Stack Consulting Co., Ltd. Registration No.จ-339  
: 4. ขนาดพื้นที่ 63.33 ไร่

บริษัท สแตค คอนซัลติ้ง จำกัด

Analyst

Laboratory Supervisor

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## ANALYSIS REPORT

Analysis No. : Lab-S 238/2566  
Report Date : December 7, 2023

CUSTOMER NAME : บริษัท ไอจี พอร์จ (ไทยแลนด์) จำกัด  
ADDRESS : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขาม อำเภอศรีราชา จังหวัดชลบุรี 20110  
SAMPLING SOURCE : ปล่องระบายอากาศ เครื่องหุงชิ้นรูป 4500T (ต่อ)  
SAMPLING DATE : November 17, 2023 SAMPLING TIME : 10:00 AM - 11:00 AM  
RECEIVED DATE : November 20, 2023 ANALYTICAL DATE : November 20 - December 6, 2023  
SAMPLING METHOD : US. EPA Method SAMPLE CONDITION : Good  
FUEL TYPE : - COMBUSTION SYSTEM : Process  
SAMPLING BY : Mr. Jeerawat Promsaengsai GPS. COORDINATES : 47P 719674 , 1450619

Item	Description	Unit	Method of Analysis	Actual Condition <sup>3/</sup>	Standard <sup>1/</sup>	Evaluation
13.	Carbon monoxide	ppm	US. EPA Method 10/	<0.01	≤870	Pass
		Kg/rai/day <sup>2/</sup>	Electrochemical sensor	<0.00010	-	-
		Kg/day <sup>2/</sup>		<0.00631	-	-

Remark : 1. <sup>1/</sup> Notification of Ministry of Industry on the Prescription of the Content Values of Air Contaminants Emitted from the Factory B.E. 2549  
: 2. <sup>2/</sup> Criteria of Industrial Estate Authority of Thailand No.79/2549  
: 3. <sup>3/</sup> Analyze results by Stack Consulting Co., Ltd. Registration No.2-339  
: 4. ขนาดพื้นที่ 63.33 ไร่



Analyst

Laboratory Supervisor

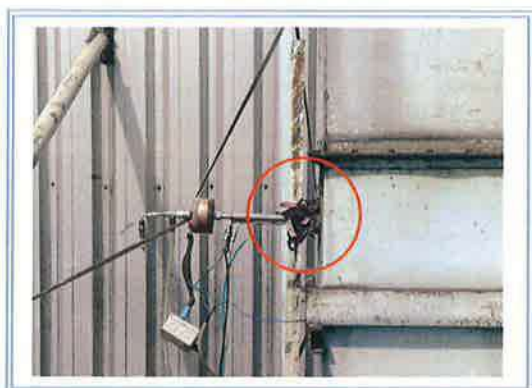
Do not copy or modify.



ปล่องระบายอากาศ เครื่องทุบขึ้นรูป  
1600T Line 1



ปล่องระบายอากาศ เครื่องทุบขึ้นรูป  
1600T Line 2



ปล่องระบายอากาศ เครื่องทุบขึ้นรูป  
3000T



ปล่องระบายอากาศ เครื่องขัดผิว  
4500T (Shot Blast)



ปล่องระบายอากาศ เครื่องทุบขึ้นรูป  
4500T

รูปแสดงการตรวจวัดปริมาณสารเจือปน  
ในอากาศที่ระบายออกจากปล่อง  
ตรวจวัดวันที่ 17 พฤศจิกายน 2566

## ภาคผนวก ค-3

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ใบรายงานผลการตรวจวัด  
คุณภาพสิ่งแวดล้อมในสถานที่ทำงาน



# ANALYSIS REPORT

Analysis No. : Lab-A 461/2566

Job No. : PCL 1540/66

Report Date : December 6, 2023

Customer Name : บริษัท โอจิ ฟอรัจ (ไทยแลนด์) จำกัด

Address : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขาม อำเภอศรีราชา จังหวัดชลบุรี 20110

Sampling Date : November 13-16, 2023

Received Date : November 17, 2023

Sampling By : Pacific Laboratory Co., Ltd.







Analytical Date : November 20, 2023

Sampling Method : NIOSH, HSE84, OSHA

Sampling Time : 08:30 a.m. - 05:30 p.m.

Sampling Condition : Good

Sampling Source : Work Place Air

Item	Location	Parameter	Unit	Method of Analysis	Analytical Technique	Result	Standard <sup>1/</sup>	Evaluation <sup>1/</sup>
1.	Forging : เครื่องทุบขึ้นรูป 1600T Line 1 (Main press) -  อายุ 26 ปี อายุงาน 1 ปี	Total dust	mg/m <sup>3</sup>	NIOSH0500	GR	0.289	≤10	pass
		Respirable dust	mg/m <sup>3</sup>	NIOSH0600	GR	0.089	≤3	pass
2.	Forging : เครื่องทุบขึ้นรูป 1600T Line 2 (Main press) -  อายุ 40 ปี อายุงาน 6 ปี	Total dust	mg/m <sup>3</sup>	NIOSH0500	GR	0.300	≤10	pass
		Respirable dust	mg/m <sup>3</sup>	NIOSH0600	GR	0.139	≤3	pass
3.	Forging : เครื่องทุบขึ้นรูป 3000T (Main press) -  อายุ 29 ปี อายุงาน 5 ปี	Total dust	mg/m <sup>3</sup>	NIOSH0500	GR	0.400	≤10	pass
		Respirable dust	mg/m <sup>3</sup>	NIOSH0600	GR	0.183	≤3	pass
4.	4500T : เครื่องทุบขึ้นรูป 4500T (Main press) -  อายุ 30 ปี อายุงาน 7 ปี	Total dust	mg/m <sup>3</sup>	NIOSH0500	GR	0.341	≤10	pass
		Respirable dust	mg/m <sup>3</sup>	NIOSH0600	GR	0.154	≤3	pass
5.	Forging : Screw press No. 1 (Main press) -  อายุ 31 ปี อายุงาน 9 เดือน	Total dust	mg/m <sup>3</sup>	NIOSH0500	GR	0.333	≤10	pass
		Respirable dust	mg/m <sup>3</sup>	NIOSH0600	GR	0.167	≤3	pass
6.	Forging : Screw press No. 2 (Main press) -  อายุ 27 ปี อายุงาน 1 ปี 4 เดือน	Total dust	mg/m <sup>3</sup>	NIOSH0500	GR	0.333	≤10	pass
		Respirable dust	mg/m <sup>3</sup>	NIOSH0600	GR	0.083	≤3	pass

Remark : 1. <sup>1/</sup> ACGIH = American Conference of Governmental Industrial Hygienist, 2023

  
Sampling License  
Analyst License

# ANALYSIS REPORT

Analysis No. : Lab-A 461/2566  
Job No. : PCL 1540/66  
Report Date : December 6, 2023

Customer Name : บริษัท โอจี ฟอรัจ (ไทยแลนด์) จำกัด  
Address : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขาม อำเภอศรีราชา จังหวัดชลบุรี 20110  
Sampling Date : November 13-16, 2023  
Received Date : November 17, 2023  
Sampling By : Pacific Laboratory Co., Ltd.  
Analytical Date : November 20, 2023  
Sampling Method : NIOSH, HSE84, OSHA  
Sampling Time : 08:30 a.m. - 05:30 p.m.  
Sampling Condition : Good  
Sampling Source : Work Place Air

Item	Location	Parameter	Unit	Method of Analysis	Analytical Technique	Result	Standard <sup>1/</sup>	Evaluation <sup>1/</sup>
7.	4500T : เครื่องขัดผิว (Shot hanger blast) [REDACTED] อายุ 28 ปี อายุงาน 5 ปี 6 เดือน	Total dust	mg/m <sup>3</sup>	NIOSH0500	GR	0.226	≤10	pass
		Oil mist	mg/m <sup>3</sup>	HSE84	GR	<0.1	≤5	pass
		Respirable dust	mg/m <sup>3</sup>	NIOSH0600	GR	0.140	≤3	pass
8.	Forging : Cutting line 1	Oil mist	mg/m <sup>3</sup>	HSE84	GR	<0.1	≤5	pass
9.	4500T : Crank cutting	Oil mist	mg/m <sup>3</sup>	HSE84	GR	<0.1	≤5	pass
10.	Forging : NC Screw press 1	Oil mist	mg/m <sup>3</sup>	HSE84	GR	<0.1	≤5	pass
11.	Forging : NC Screw press 2	Oil mist	mg/m <sup>3</sup>	HSE84	GR	1.211	≤5	pass
12.	Forging : NC Screw press 3	Oil mist	mg/m <sup>3</sup>	HSE84	GR	0.357	≤5	pass
13.	Finishing : CNC Machining line 1	Oil mist	mg/m <sup>3</sup>	HSE84	GR	1.308	≤5	pass
14.	Finishing : CNC Machining line 2	Oil mist	mg/m <sup>3</sup>	HSE84	GR	1.643	≤5	pass
15.	Finishing : CNC Machining line 3	Oil mist	mg/m <sup>3</sup>	HSE84	GR	<0.1	≤5	pass
16.	Finishing : CNC Machining line 4	Oil mist	mg/m <sup>3</sup>	HSE84	GR	0.533	≤5	pass
17.	Finishing : CNC Machining line 5	Oil mist	mg/m <sup>3</sup>	HSE84	GR	<0.1	≤5	pass

Remark : 1. <sup>1/</sup> ACGIH = American Conference of Governmental Industrial Hygienist, 2023

  
[REDACTED]  
Sampling License [REDACTED]  
Analyst License [REDACTED]



PACIFIC

LABORATORY CO., LTD.

Pacific Laboratory Co., Ltd.  
14/5358 Moo 14 Tambol Bang Bua Thong  
Amphoe Bang Bua Thong, Nonthaburi 11110  
Tel. : 0-2045-2446-7 Fax. : 0-2045-3991

## ANALYSIS REPORT

Analysis No. : Heat 343/2566  
Job No. : PCL 1540/66  
Report Date : November 22, 2023

Customer Name : บริษัท ไอจี พอร์จ (ไทยแลนด์) จำกัด  
Address : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมบึงทอง 2 ตำบลหนองขาม อำเภอศรีราชา จังหวัดชลบุรี 20110  
Measured Date : November 13-14 and 20, 2023  
Measured By : Pacific Laboratory Co., Ltd. Heat Stress Monitor Quest Technologies Model QUESTemp 32 Serial Number  
Sampling Source : Work Place Air Temperature  
Measured Instrument : Heat Stress Monitor Quest Technologies Model QUESTemp 34 Serial Number TED060013, Heat Stress Monitor TSI Model QUESTemp 32 Serial Number TPW020008  
Heat Stress Monitor Quest Technologies Model QUESTemp 36 Serial Number TKJ090016

Item	Location/Similar Exposure Group	Interval Time	Temperature (°C)				Type of Work	Work Load			Evaluation
			T <sub>Wet</sub>	T <sub>Dry</sub>	T <sub>GT</sub>	WBGT In/Out		Energy Used (Kcal/Hr)	Average Energy Used (Kcal/Hr)	Level of Work Load	
1.	Forging : เครื่องทุบขึ้นรูป 1600T Line 1 (Main press)	10:00 a.m.-12:00 a.m.	27.2	33.5	33.9	29.2	ควบคุม และนำชิ้นงานเข้าเครื่องจักร (120 นาที)	225	225	Moderate Work Load	pass
Standard <sup>1/</sup> (Moderate Work Load) = 32.0 WBGT											
2.	Forging : เครื่องทุบขึ้นรูป 1600T Line 2 (Main Press)	01:00 p.m.-03:00 p.m.	27.2	34.3	35.5	29.7	ควบคุม และนำชิ้นงานเข้าเครื่องจักร (120 นาที)	225	225	Moderate Work Load	pass
Standard <sup>1/</sup> (Moderate Work Load) = 32.0 WBGT											

Remark : 1. T<sub>Wet</sub> = Nature Wet Bulb Temperature  
2. T<sub>Dry</sub> = Dry Bulb Temperature  
3. T<sub>GT</sub> = Globe Temperature  
4. WBGT = Wet Bulb Globe Temperature Index  
5. <sup>1/</sup> Ministerial Regulation on Standard of Safety Administration and Management, Occupational Health and Environmental Condition concerning Heat, Light and Noise, B.E. 2559 (Dated 7 October B.E. 2559) (Section 1 Heat)  
6. Measurement Reference of Notification of Department of labour protection and welfare on the standards measuring methods and analysis about the working conditions of heat, light and sound including the duration and the type of business that must be performed. (Dated 8 February B.E. 2561)



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Amphoe Bang Bua Thong, Nonthaburi 11110  
Tel. : 0-2045-2446-7 Fax. : 0-2045-3991

## ANALYSIS REPORT

Analysis No. : Heat 343/2566  
Job No. : PCL 1540/66  
Report Date : November 22, 2023

Customer Name : บริษัท ไอจี ฟอรัจ (ไทยแลนด์) จำกัด  
Address : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขาม อำเภอศรีราชา จังหวัดชลบุรี 20110  
Measured Date : November 13-14 and 20, 2023  
Measured By : Pacific Laboratory Co., Ltd. Heat Stress Monitor Quest Technologies Model QUESTemp 32 Serial Number  
Sampling Source : Work Place Air Temperature  
Measured Instrument : Heat Stress Monitor Quest Technologies Model QUESTemp 34 Serial Number TED060013, Heat Stress Monitor TSI Model QUESTemp 32 Serial Number TPW020008  
Heat Stress Monitor Quest Technologies Model QUESTemp 36 Serial Number TKJ090016

Item	Location/Similar Exposure Group	Interval Time	Temperature (°C)				Type of Work	Work Load		Evaluation
			T <sub>NWB</sub>	T <sub>DB</sub>	T <sub>GT</sub>	WBGT In/Out		Energy Used (Kcal/Hr)	Average Energy Used (Kcal/Hr)	
3.	Forging : เครื่องทุบตีรูป 3000T (Main press)	10:00 a.m.-12:00 a.m.	23.0	28.7	29.1	24.8	ควบคุม และนำชิ้นงานเข้าเครื่องจักร (120 นาที)	225	225	Moderate Work Load pass
Standard <sup>1/</sup> (Moderate Work Load) = 32.0 WBGT										
4.	4500T : เครื่องทุบตีรูป 4500T (Main press)	01:00 p.m.-03:00 p.m.	27.3	33.3	34.2	29.4	ควบคุม และนำชิ้นงานเข้าเครื่องจักร (120 นาที)	225	225	Moderate Work Load pass
Standard <sup>1/</sup> (Moderate Work Load) = 32.0 WBGT										

Remark : 1. T<sub>NWB</sub> = Nature Wet Bulb Temperature  
2. T<sub>DB</sub> = Dry Bulb Temperature  
3. T<sub>GT</sub> = Globe Temperature  
4. WBGT = Wet Bulb Globe Temperature Index  
5. <sup>1/</sup> Ministerial Regulation on Standard of Safety Administration and Management, Occupational Health and Environmental Condition concerning Heat, Light and Noise, B.E. 2559 (Dated 7 October B.E. 2559) Section 1 (Heat)  
6. Measurement Reference of Notification of Department of labour protection and welfare on the standards measuring methods and analysis about the working conditions of heat, light and sound including the duration and the type of business that must be performed. (Dated 8 February B.E. 2561)



License No.

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Amphoe Bang Bua Thong, Nonthaburi 11110  
Tel. : 0-2045-2446-7 Fax. : 0-2045-3991

## ANALYSIS REPORT

Analysis No. : Heat 343/2566  
Job No. : PCL 1540/66  
Report Date : November 22, 2023

Customer Name : บริษัท ไอจี ฟอริง (ไทยแลนด์) จำกัด  
Address : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขาม อำเภอศรีราชา จังหวัดชลบุรี 20110  
Measured Date : November 13-14 and 20, 2023  
Measured By : Pacific Laboratory Co., Ltd. Heat Stress Monitor Quest Technologies Model QUESTemp 32 Serial Number  
Sampling Source : Work Place Air Temperature  
Measured Instrument : Heat Stress Monitor Quest Technologies Model QUESTemp 34 Serial Number TED060013, Heat Stress Monitor TSI Model QUESTemp 32 Serial Number TPW020008  
Heat Stress Monitor Quest Technologies Model QUESTemp 36 Serial Number TKJ090016

Item	Location/Similar Exposure Group	Interval Time	Temperature (°C)				Type of Work	Work Load			Evaluation
			T <sub>NWB</sub>	T <sub>DB</sub>	T <sub>GRT</sub>	WBGT In/Out		Energy Used (Kcal/Hr)	Average Energy Used (Kcal/Hr)	Level of Work Load	
5.	Forging : Screw press No. 1 (Main press)	01:00 p.m.-03:00 p.m.	27.2	34.3	35.4	29.7	ควบคุม และมีชิ้นงานเข้าเครื่องจักร (120 นาที)	225	225	Moderate Work Load	pass
Standard <sup>1/</sup> (Moderate Work Load) = 32.0 WBGT											
6.	Forging : Screw press No. 2 (Main press)	01:00 p.m.-03:00 p.m.	27.1	34.0	34.7	29.4	ควบคุม และมีชิ้นงานเข้าเครื่องจักร (120 นาที)	225	225	Moderate Work Load	pass
Standard <sup>1/</sup> (Moderate Work Load) = 32.0 WBGT											

Remark : 1. T<sub>NWB</sub> = Nature Wet Bulb Temperature  
2. T<sub>DB</sub> = Dry Bulb Temperature  
3. T<sub>GRT</sub> = Globe Temperature  
4. WBGT = Wet Bulb Globe Temperature Index

5. <sup>1/</sup> Ministerial Regulation on Standard of Safety Administration and Management, Occupational Health and Environmental Condition concerning Heat, Light and Noise, B.E. 2559 (Dated 7 October B.E. 2559) (Section 1-Heat)  
6. Measurement Reference of Notification of Department of labour protection and welfare on the standards measuring methods and analysis about the working conditions of heat, light and sound including the duration and the type of business that must be performed. (Dated 8 February B.E. 2561)



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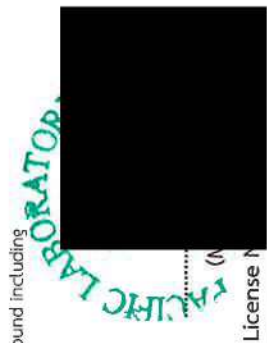
NOISE EXPOSURE ANALYSIS REPORT

Analysis No. : ND 132/2566  
Job No. : PCL 1540/66  
Report Date : November 22, 2023

Customer Name : บริษัท ไอจี พอร์จ (ไทยแลนด์) จำกัด  
Address : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขา อำเภอดร้าวา จังหวัดลบุรี 20110  
Measured By : Pacific Laboratory Co., Ltd.  
Sampling Source : Work Place Noise

Location/Similar Exposure Group	Measure Date	Measured Instrument		Time of performance (hr.)	Noise Dose (D) (%)	Equivalent sound level that exposed (TWA 8 hrs.) (dBA)	Evaluation
		Model	S/N				
1. Forging : Cutting line 1 (คุณวิมล ภูคำมี)	15-16/11/66	Soundtek/ST-130	220100152	8 hrs.	50.89	82.1	pass
2. Forging : Cutting line 2 (คุณดุย ภูขุนทด)	15-16/11/66	Soundtek/ST-130	220100154	8 hrs.	152	86.8	fail
3. Forging : Cutting line 3 (คุณอภัย ภูสนธิ์)	15-16/11/66	Soundtek/ST-130	220100163	8 hrs.	95.51	84.8	pass
4. 4500T : Crank cutting จุดที่ 1 (คุณนิมิตร แสนโสภ)	13/11/66	Cirrus Research plc/ CR:110A	CB1172	8 hrs.	36.48	80.6	pass
5. Forging : เครื่องทุบขึ้นรูป 1600T Line 1 (Main press) (คุณสุวิทย์ รื่นโรจ)	14/11/66	Soundtek/ST-130	220100163	8 hrs.	569	92.6	fail
Standard <sup>1/</sup> (TWA 8 hrs.)						≤85	-

Remark : 1. <sup>1/</sup> Notification of Department of labour protection and welfare on the standards Sound levels that allow employee's received an average duration of each work day. (Dated 13 December B.E. 2560)  
2. Measurement Reference of Notification of Department of labour protection and welfare on the standards measuring methods and analysis about the working conditions of heat, light and sound including the duration and the type of business that must be performed. (Dated 8 February B.E. 2561)



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Amphoe Bang Bua Thong, Nonthaburi 11110  
Tel. : 0-2045-2446-7 Fax. : 0-2045-3991

## NOISE EXPOSURE ANALYSIS REPORT

Customer Name

: บริษัท ไอจี พอร์จ (ไทยแลนด์) จำกัด

Address

: เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขา อำเภอกีรีราชา จังหวัดชลบุรี 20110

Measured By

: Pacific Laboratory Co., Ltd.

Sampling Source

: Work Place Noise

Analysis No. : ND 132/2566

Job No. : PCL 1540/66

Report Date : November 22, 2023

Location/Similar Exposure Group	Measure Date	Measured Instrument		Time of performance (hr.)	Noise Dose (D) (%)	Equivalent sound level that exposed (TWA 8 hrs.) (dBA)	Evaluation
		Model	S/N				
6. Forging : เครื่องทุบขึ้นรูป 1600T Line 2 (Main press) (คุณสมบัติ อุณหภูมิ)	14/11/66	Soundtek/ST-130	220100161	8 hrs.	186	87.7	fail
7. Forging : เครื่องทุบขึ้นรูป 3000T (Main press) (คุณสมบัติ สว่างแรง)	15-16/11/66	Soundtek/ST-130	220100164	8 hrs.	144	86.6	fail
8. 4500T : เครื่องทุบขึ้นรูป 4500T (Main press) (คุณสมบัติ มุกขุนทด)	13/11/66	Cirrus Research plc/ CR-110A	CB1175	8 hrs.	55.59	82.4	pass
9. 4500T : เครื่องจัดผิว (Shot hanger blast) (คุณสมบัติ สดวืด)	13/11/66	Cirrus Research plc/ CR-110A	CB1173	8 hrs.	61.65	82.9	pass
10. 4500T : Crank (Magna) (คุณสมบัติ ตีลัง)	13/11/66	Cirrus Research plc/ CR-110A	CB1171	8 hrs.	41.66	81.2	pass
Standard <sup>1/</sup> (TWA 8 hrs.)						≤85	-

Remark : 1.<sup>1/</sup> Notification of Department of labour protection and welfare on the standards Sound levels that allow employee's received an average duration of each work day. (Dated 13 December B.E. 2560)

2. Measurement Reference of Notification of Department of labour protection and welfare on the standards measuring methods and analysis about the working conditions of heat, light and sound including the duration and the type of business that must be performed. (Dated 8 February B.E. 2561)



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Amphoe Bang Bua Thong, Nonthaburi 11110  
Tel. : 0-2045-2446-7 Fax. : 0-2045-3991

## NOISE EXPOSURE ANALYSIS REPORT

Analysis No. : ND 132/2566  
Job No. : PCL 1540/66  
Report Date : November 22, 2023

Customer Name : บริษัท ไอจี ฟอรัจ (ไทยแลนด์) จำกัด  
Address : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมเป็นทอง 2 ตำบลหนองขาม อำเภอศรีราชา จังหวัดชลบุรี 20110  
Measured By : Pacific Laboratory Co., Ltd.  
Sampling Source : Work Place Noise

Location/Similar Exposure Group	Measure Date	Measured Instrument		Time of performance (hr.)	Noise Dose (D) (%)	Equivalent sound level that exposed (TWA 8 hrs.) (dBA)	Evaluation
		Model	S/N				
11. Knuckle (Magna) จุดที่ 1 (คุณบุรุษ ทวดโสด)	15/11/66	Cirrus Research plc/ CR-110A	CB1175	8 hrs.	81.28	84.1	pass
12. Knuckle (Magna) จุดที่ 2 (คุณปฎิภาณ แสงดาว)	15/11/66	Cirrus Research plc/ CR-110A	CB1174	8 hrs.	54.90	82.4	pass
Standard <sup>1/</sup> (TWA 8 hrs.)				-	-	≤85	-

Remark : 1.<sup>1/</sup> Notification of Department of labour protection and welfare on the standards Sound levels that allow employee's received an average duration of each work day. (Dated 13 December B.E. 2560)  
2. Measurement Reference of Notification of Department of labour protection and welfare on the standards measuring methods and analysis about the working conditions of heat, light and sound including the duration and the type of business that must be performed. (Dated 8 February B.E. 2561)



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Amphoe Bang Bua Thong, Nonthaburi 11110  
Tel. : 0-2045-2446-7 Fax. : 0-2045-3991

## NOISE EXPOSURE ANALYSIS REPORT

Analysis No. : Noise 351/2566  
Job No. : PCL 1540/66  
Report Date : November 22, 2023

Customer Name : บริษัท ไอจี พอร์จ (ไทยแลนด์) จำกัด  
Address : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมปิ่นทอง 2 ตำบลหนองขา อำเภอสว่างวีรจักร จังหวัดสุรินทร์ 20110  
Measured By : Pacific Laboratory Co., Ltd.  
Sampling Source : Work Place Noise

Location/Similar Exposure Group	Measure Date	Measured Instrument		Interval Time	Impulse Noise (dBC) (Lpeak)	Evaluation
		Model	S/N			
1. Forging : Cutting line 1	14/11/66	ACO/6236	222042	03:01 p.m. - 07:01 p.m.	130.4	pass
2. Forging : Cutting line 2	14/11/66	ACO/6236	222174	02:50 p.m. - 06:50 p.m.	132.2	pass
3. Forging : Cutting line 3	14/11/66	ACO/6236	222046	02:59 p.m. - 06:59 p.m.	130.9	pass
4. 4500T : Crank cutting จุดที่ 1	13/11/66	ACO/6236	222043	10:58 a.m. - 03:58 p.m.	116.2	pass
5. 4500T : Crank cutting จุดที่ 2	13/11/66	ACO/6236	222046	10:57 a.m. - 03:57 p.m.	115.5	pass
6. Forging : NC Screw press line 1	14/11/66	ACO/6236	222174	09:38 a.m. - 02:38 p.m.	121.1	pass
7. Forging : NC Screw press line 2	14/11/66	ACO/6236	222046	09:39 a.m. - 02:39 p.m.	124.6	pass
8. Forging : NC Screw press line 3	14/11/66	ACO/6236	222173	09:40 a.m. - 02:40 p.m.	122.9	pass
Standard <sup>1/</sup>					≤140	-

Remark : 1. <sup>1/</sup> Ministerial Regulation on Standard of Safety Administration and Management, Occupational Health and Environmental Condition concerning Heat, Light and Noise, B.E. 2559  
(Dated 7 October B.E. 2559) (Section 3 : Noise)



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Amphoe Bang Bua Thong, Nonthaburi 11110  
Tel. : 0-2045-2446-7 Fax. : 0-2045-3991

## NOISE EXPOSURE ANALYSIS REPORT

Analysis No. : Noise 351/2566  
Job No. : PCL 1540/66  
Report Date : November 22, 2023

Customer Name : บริษัท ไอจี ฟอรัจ (ไทยแลนด์) จำกัด  
Address : เลขที่ 150/68 หมู่ที่ 9 นิคมอุตสาหกรรมเป็นทอง 2 ตำบลหนองขา อำเภอสรีราชา จังหวัดชลบุรี 20110  
Measured By : Pacific Laboratory Co., Ltd.  
Sampling Source : Work Place Noise

Location/Similar Exposure Group	Measure Date	Measured Instrument		Interval Time	Impulse Noise (dBC) (Lpeak)	Evaluation
		Model	S/N			
9. Finishing : CNC Machining line 1	13/11/66	ACO/6236	222173	11:48 a.m. - 04:48 p.m.	104.1	pass
10. Finishing : CNC Machining line 2	13/11/66	ACO/6236	222048	11:43 a.m. - 04:43 p.m.	106.9	pass
11. Finishing : CNC Machining line 3	13/11/66	ACO/6236	222044	11:40 a.m. - 04:40 p.m.	114.3	pass
12. Finishing : CNC Machining line 4	13/11/66	ACO/6236	222174	11:51 a.m. - 04:51 p.m.	114.0	pass
13. Finishing : CNC Machining line 5	13/11/66	ACO/6236	222042	11:55 a.m. - 04:55 p.m.	110.5	pass
Standard <sup>1/</sup>					≤140	-

Remark : 1. <sup>1/</sup> Ministerial Regulation on Standard of Safety Administration and Management, Occupational Health and Environmental Condition concerning Heat, Light and Noise, B.E. 2559  
(Dated 7 October B.E. 2559) (Section 3 : Noise)



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## ภาคผนวก ค-4

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ใบรายงานผลการตรวจวัดคุณภาพน้ำทิ้ง

## Test Report

Request No : W6607318

Report No : 6607-2191

Customer : Aichi Forge (Thailand) Co.,Ltd.\*\*

Address : 150/68 Pinthong Industrial Estate #2 Moo 9, Nongkham, Sriracha, Chonburi 20230\*\*

Sampling Source : Pinthong Industrial Park 2\*\*

Sample No : W 66071200

Sample Name : น้ำขบวนการบดแป้ง\*\*

Sampling Date : 11/07/2023\*\*

Sampling By : ETC\*\*

Sampling Time : 9:05 AM\*\*

Sampling Method : Grab\*\*

Received Date : 12/07/2023

Tested Date : 12/07/2023 - 21/07/2023

Reported Date : 27/07/2023

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	4.0	≤500
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	57	≤750
Color (Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤600
Color (pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤600
Lead *	mg/L	Digestion, Inductively Coupled Plasma (SM:3030F, 3120B)	< 0.03	≤0.2
Oil and Grease *	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site) *		Electrometric Method	7.3	5.5 - 9.0

Physical Appearance : 1. Sample : yellow, lightly SS

2. Container : Normal [ PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L ]

Remark : 1. /1 Notification of Industrial Estate Authority of Thailand 76 / 2560 (2017)

2. # = ISO/IEC 17025:2017 Accredited by DSS, SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.

4. \* = Test Report/Sampling marked Not Accredited, Sampling By Mr. Teerapong Nualin (1-003-ท-5620)\*

5. \*\* = These data are non laboratory data.

Examined

27/07/2023

EASTERN THAI CONSULTING 1992 CO., LTD.

27/07/2023

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## Test Report

Request No : W6607318

Report No : 6607-2191

Customer : Aichi Forge (Thailand) Co.,Ltd.\*\*

Address : 150/68 Pinthong Industrial Estate #2 Moo 9, Nongkham, Sriracha, Chonburi 20230\*\*

Sampling Source : Pinthong Industrial Park 2\*\*

Sample No : W 66071200

Sample Name : น้ำขาออกระบบเคมี\*\*

Sampling Date : 11/07/2023\*\*

Sampling By : ETC\*\*

Sampling Time : 9:05 AM\*\*

Sampling Method : Grab\*\*

Received Date : 12/07/2023

Tested Date : 12/07/2023 - 21/07/2023

Reported Date : 27/07/2023

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Temperature *	°C	Laboratory and Field Method	27	≤45
Total Dissolved Solids #	mg/L	Dried at 180 C (SM:2540C)	1,384	≤3000
Total Kjeldahl Nitrogen *	mg/L as NH <sub>3</sub> -N	Macro Kjeldahl Method (SM:4500 -Norg B)	< 5	≤100
Total Suspended Solids #	mg/L	Dried at 103-105 C (SM:2540D)	< 5	≤200

Physical Appearance : 1. Sample : yellow, lightly SS

2. Container : Normal [ PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L ]

Remark : 1. /1 Notification of Industrial Estate Authority of Thailand 76 / 2560 (2017)

2. # = ISO/IEC 17025:2017 Accredited by DSS, SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.

4. \* = Test Report/Sampling marked Not Accredited, Sampling By Mr. Teerapong Nualin (จ-003-ก-5620)\*

5. \*\* = These data are non laboratory data

Examined

27/07/2023

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## Test Report

Request No : W6608397

Report No : 6608-2076

Customer : Aichi Forge (Thailand) Co.,Ltd.\*\*

Address : 150/68 Pinthong Industrial Estate #2 Moo 9, Nongkham, Sriracha, Chonburi 20230\*\*

Sampling Source : Pinthong Industrial Park 2\*\*

Sample No : W 66081334

Sample Name : น้ำจากอกระบบเคมี\*\*

Sampling Date : 16/08/2023\*\*

Sampling By : ETC\*\*

Sampling Time : 8:35 AM\*\*

Sampling Method : Grab\*\*

Received Date : 17/08/2023

Tested Date : 17/08/2023 - 25/08/2023

Reported Date : 30/08/2023

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤500
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	41	≤750
Color(Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤600
Color(pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤600
Lead *	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.03	≤0.2
Oil and Grease *	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10

Physical Apperance : 1. Sample : lightly SS

2. Container : Normal [ PE 0.5 L [ 2 Bottle], PE 1.0 L, PE 1.8 L, G 1.0 L ]

Remark : 1. /1 Notification of Industrial Estate Authority of Thailand 76 / 2560 (2017)

2. # = ISO/IEC 17025:2017 Accredited by DSS, SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.

4. \* = Test Report/Sampling marked Not Accredited, Sampling By Miss Pornpinan Viriyakusolkul (จ-003-ก-0036)\*

5. \*\* = These data are non laboratory data.

Examined By

(

30/08/2023

บริษัท อีสเทิร์นไทยคंसัลติง 1992 จำกัด

30/08/2023

REPORTED TEST REFER TO SUBMITTED SAMPLES ONLY  
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## Test Report

Request No : W6608397

Report No : 6608-2076

Customer : Aichi Forge (Thailand) Co.,Ltd.\*\*

Address : 150/68 Pinthong Industrial Estate #2 Moo 9, Nongkham, Sriracha, Chonburi 20230\*\*

Sampling Source : Pinthong Industrial Park 2\*\*

Sample No : W 66081334

Sample Name : น้ำจากออกกระบบเคมี\*\*

Sampling Date : 16/08/2023\*\*

Sampling By : ETC\*\*

Sampling Time : 8:35 AM\*\*

Sampling Method : Grab\*\*

Received Date : 17/08/2023

Tested Date : 17/08/2023 - 25/08/2023

Reported Date : 30/08/2023

Parameter	Unit	Method	Result	Standard <sup>1</sup>
pH (on site) *		Electrometric Method	7.4	5.5 - 9.0
Temperature *	°C	Laboratory and Field Method	32	≤45
Total Dissolved Solids <sup>#</sup>	mg/L	Dried at 180 C (SM:2540C)	1,152	≤3000
Total Kjeldahl Nitrogen *	mg/L as NH <sub>3</sub> -N	Macro Kjeldahl Method (SM:4500 -Norg B)	< 5	≤100
Total Suspended Solids <sup>#</sup>	mg/L	Dried at 103-105 C (SM:2540D)	< 5	≤200

Physical Apperance : 1. Sample : lightly SS

2. Container : Normal [ PE 0.5 L [ 2 Bottle], PE 1.0 L, PE 1.8 L, G 1.0 L ]

Remark : 1. /1 Notification of Industrial Estate Authority of Thailand 76 / 2560 (2017)

2. # = ISO/IEC 17025:2017 Accredited by DSS, SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.

4. \* = Test Report/Sampling marked Not Accredited, Sampling By Miss Pornpinan Viriyakusolkul (1-003-0-0036)\*

5. \*\* = These data are non laboratory data.

Examined By

30/08/2023

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30/08/2023

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## Test Report

Request No : W6609321

Report No : 6609-1847

Customer : Aichi Forge (Thailand) Co.,Ltd.\*\*

Address : 150/68 Pinthong Industrial Estate #2 Moo 9, Nongkham, Sriracha, Chonburi 20230\*\*

Sampling Source : Pinthong Industrial Park 2\*\*

Sample No : W 66091235

Sample Name : น้ำขบวนการระบบเคมี\*\*

Sampling Date : 12/09/2023\*\*

Sampling By : ETC\*\*

Sampling Time : 9:15 AM\*\*

Sampling Method : Grab\*\*

Received Date : 13/09/2023

Tested Date : 13/09/2023 - 20/09/2023

Reported Date : 26/09/2023

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	2.8	≤500
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	< 40	≤750
Color(Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤600
Color(pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤600
Lead @	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.03	≤0.2
Oil and Grease @	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10

Physical Appearance : 1. Sample : lightly SS

2. Container : Normal [ PE 0.5 L [ 2 Bottle], PE 1.0 L, PE 1.8 L, G 1.0 L ]

Remark : 1. /1 Notification of Industrial Estate Authority of Thailand 76 / 2560 (2017)

2. @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS,

SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.

4. \* = Test Report/Sampling marked Not Accredited, Sampling By Miss Janthanee Saiphan (T-003-ก-0018) \*

5. \*\* = These data are non laboratory data.

Examined

26/09/2023

26/09/2023

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## Test Report

Request No : W6609321

Report No : 6609-1847

Customer : Aichi Forge (Thailand) Co.,Ltd.\*\*

Address : 150/68 Pinthong Industrial Estate #2 Moo 9, Nongkham, Sriracha, Chonburi 20230\*\*

Sampling Source : Pinthong Industrial Park 2\*\*

Sample No : W 66091235

Sample Name : น้ำหล่อระบบเบรค\*\*

Sampling Date : 12/09/2023\*\*

Sampling By : ETC\*\*

Sampling Time : 9:15 AM\*\*

Sampling Method : Grab\*\*

Received Date : 13/09/2023

Tested Date : 13/09/2023 - 20/09/2023

Reported Date : 26/09/2023

Parameter	Unit	Method	Result	Standard/ <sup>1</sup>
pH (on site) *		Electrometric Method	7.0	5.5 - 9.0
Temperature *	°C	Laboratory and Field Method	25	≤45
Total Dissolved Solids #	mg/L	Dried at 180 degree celsius (SM:2540C)	1,232	≤3000
Total Kjeldahl Nitrogen *	mg/L as NH <sub>3</sub> -N	Macro Kjeldahl Method (SM:4500 -Norg B)	< 5	≤100
Total Suspended Solids #	mg/L	Dried at 103-105 degree celsius (SM:2540D)	< 5	≤200

Physical Apperance : 1. Sample : lightly SS

2. Container : Normal [ PE 0.5 L [ 2 Bottle], PE 1.0 L, PE 1.8 L, G 1.0 L ]

Remark : 1. /1 Notification of Industrial Estate Authority of Thailand 76 / 2560 (2017)

2. @ = ISO/IEC 17025:2017 Accredited by TISI, # = ISO/IEC 17025:2017 Accredited by DSS,

SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.

4. \* = Test Report/Sampling marked Not Accredited, Sampling By Miss Janthanee Saiphan (จ-003-ก-0018) \*

5. \*\* = These data are non laboratory data

Examined By

26/09/2023

26/09/2023

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## Test Report

Request No : W6610410

Report No : 6610-2156

Customer : Aichi Forge (Thailand) Co.,Ltd.\*\*

Address : 150/68 Pinthong Industrial Estate #2 Moo 9, Nongkham, Sriracha, Chonburi 20230\*\*

Sampling Source : Pinthong Industrial Park 2\*\*

Sample No : W 66101470

Sample Name : น้ำขาออกระบบเคมี\*\*

Sampling Date : 17/10/2023\*\*

Sampling By : ETC\*\*

Sampling Time : 9:15 AM\*\*

Sampling Method : Grab\*\*

Received Date : 18/10/2023

Tested Date : 18/10/2023 - 27/10/2023

Reported Date : 30/10/2023

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	6.0	≤500
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	41	≤750
Color(Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤600
Color(pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤600
Lead @	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.03	≤0.2
Oil and Grease @	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10

Physical Appearance : 1. Sample : yellowish, lightly SS

2. Container : Normal [ PE 0.5 L [ 2 Bottle], PE 1.0 L, PE 1.8 L, G 1.0 L ]

Remark : 1. /1 Notification of Industrial Estate Authority of Thailand 76 / 2560 (2017)

2. @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS,

SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.

4. \* = Test Report/Sampling marked Not Accredited, Sampling By Miss Janthanee Saiphan (จ-003-ก-0018) \*

5. \*\* = These data are non laboratory data.

Examined

30/10/2023

บริษัท อีสเทิร์นไทยคอนซัลติง 1992 จำกัด

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## Test Report

Request No : W6610410

Report No : 6610-2156

Customer : Aichi Forge (Thailand) Co.,Ltd.\*\*

Address : 150/68 Pinthong Industrial Estate #2 Moo 9, Nongkham, Sriracha, Chonburi 20230\*\*

Sampling Source : Pinthong Industrial Park 2\*\*

Sample No : W 66101470

Sample Name : น้ำขากอกระบบเคมี\*\*

Sampling Date : 17/10/2023\*\*

Sampling By : ETC\*\*

Sampling Time : 9:15 AM\*\*

Sampling Method : Grab\*\*

Received Date : 18/10/2023

Tested Date : 18/10/2023 - 27/10/2023

Reported Date : 30/10/2023

Parameter	Unit	Method	Result	Standard/ <sup>1</sup>
pH (on site) *		Electrometric Method	7.1	5.5 - 9.0
Temperature *	°C	Laboratory and Field Method	31	≤45
Total Dissolved Solids #	mg/L	Dried at 180 degree celsius (SM:2540C)	1,248	≤3000
Total Kjeldahl Nitrogen *	mg/L as NH <sub>3</sub> -N	Macro Kjeldahl Method (SM:4500 -Norg B)	< 5	≤100
Total Suspended Solids #	mg/L	Dried at 103-105 degree celsius (SM:2540D)	< 5	≤200

Physical Apperance : 1. Sample : yellowish, lightly SS

2. Container : Normal [ PE 0.5 L [ 2 Bottle], PE 1.0 L, PE 1.8 L, G 1.0 L ]

Remark : 1. /1 Notification of Industrial Estate Authority of Thailand 76 / 2560 (2017)

2. @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS,

SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.

4. \* = Test Report/Sampling marked Not Accredited, Sampling By Miss Janthanee Saiphan (๖-๐๐3-๓-๐๐18) \*

5. \*\* = These data are non laboratory data.

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30/10/2023

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30/10/2023

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## Test Report

Request No : W6611414

Report No : 6611-2148

Customer : Aichi Forge (Thailand) Co.,Ltd.\*\*

Address : 150/68 Pinthong Industrial Estate #2 Moo 9, Nongkham, Sriracha, Chonburi 20230\*\*

Sampling Source : Pinthong Industrial Park 2\*\*

Sample No : W 66111416

Sample Name : น้ำขากอกระบบเคมี\*\*

Sampling Date : 15/11/2023\*\*

Sampling By : ETC\*\*

Sampling Time : 9:05 AM\*\*

Sampling Method : Grab\*\*

Received Date : 16/11/2023

Tested Date : 16/11/2023 - 22/11/2023

Reported Date : 29/11/2023

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	2.5	≤500
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	< 40	≤750
Color (Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤600
Color (pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤600
Lead @	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.03	≤0.2
Oil and Grease @	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10

Physical Appearance : 1. Sample : yellowish, lightly SS

2. Container : Normal [ PE 0.5 L [ 2 Bottle], PE 1.0 L, PE 1.8 L, G 1.0 L ]

Remark : 1. /I Notification of Industrial Estate Authority of Thailand 76 / 2560 (2017)

2. @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS,

SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.

4. \* = Test Report/Sampling marked Not Accredited, Sampling By Miss Janthance Saiphan (จ-003-ก-0018) \*

5. \*\* = These data are non laboratory data.

Exam



## Test Report

Request No : W6611414

Report No : 6611-2148

Customer : Aichi Forge (Thailand) Co.,Ltd.\*\*

Address : 150/68 Pinthong Industrial Estate #2 Moo 9, Nongkham, Sriracha, Chonburi 20230\*\*

Sampling Source : Pinthong Industrial Park 2\*\*

Sample No : W 66111416

Sample Name : น้ำขากอกระบบเคมี\*\*

Sampling Date : 15/11/2023\*\*

Sampling By : ETC\*\*

Sampling Time : 9:05 AM\*\*

Sampling Method : Grab\*\*

Received Date : 16/11/2023

Tested Date : 16/11/2023 - 22/11/2023

Reported Date : 29/11/2023

Parameter	Unit	Method	Result	Standard/I
pH (on site) *		Electrometric Method	7.0	5.5 - 9.0
Temperature *	°C	Laboratory and Field Method	30	≤45
Total Dissolved Solids #	mg/L	Dried at 180 degree celsius (SM:2540C)	1,832	≤3000
Total Kjeldahl Nitrogen *	mg/L as NH <sub>3</sub> -N	Macro Kjeldahl Method (SM:4500 -Norg B)	< 5	≤100
Total Suspended Solids #	mg/L	Dried at 103-105 degree celsius (SM:2540D)	< 5	≤200

Physical Apperance : 1. Sample : yellowish, lightly SS

2. Container : Normal [ PE 0.5 L [ 2 Bottle], PE 1.0 L, PE 1.8 L, G 1.0 L ]

Remark : 1. /I Notification of Industrial Estate Authority of Thailand 76 / 2560 (2017)

2. @ = ISO/IEC 17025:2017 Accredited by TISI, # = ISO/IEC 17025:2017 Accredited by DSS,

SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.

4. \* = Test Report/Sampling marked Not Accredited, Sampling By Miss Janthanee Saiphan (จ-003-ก-0018) \*

5. \*\* = These data are non laboratory data.

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## Test Report

Request No : W6612325

Report No : 6612-1395

Customer : Aichi Forge (Thailand) Co.,Ltd.\*\*

Address : 150/68 Pinthong Industrial Estate #2 Moo 9, Nongkham, Sriracha, Chonburi 20230\*\*

Sampling Source : Pinthong Industrial Park 2\*\*

Sample No : W 66121107

Sample Name : น้ำขากอกระบบเคมี\*\*

Sampling Date : 12/12/2023\*\*

Sampling By : ETC\*\*

Sampling Time : 8:20 AM\*\*

Sampling Method : Grab\*\*

Received Date : 13/12/2023

Tested Date : 13/12/2023 - 21/12/2023

Reported Date : 23/12/2023

Parameter	Unit	Method	Result	Standard <sup>1/</sup>
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	4.4	≤500
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	45	≤750
Color (Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	20	≤600
Color (pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	31	≤600
Lead @	mg/L	Digestion, Inductively Coupled Plasma Method (SM:3030F, 3120B)	< 0.03	≤0.2
Oil and Grease @	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10

Physical Appearance : 1. Sample : lightly SS

2. Container : Normal [ PE 0.5 L [ 2 Bottle], PE 1.0 L, PE 1.8 L ]

Remark : 1. /1 Notification of Industrial Estate Authority of Thailand 76 / 2560 (2017)

2. @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS,

SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.

4. \* = Test Report/Sampling marked Not Accredited, Sampling By Mr. Songpon Phiwan (7-003-0016)\*

5. \*\* = These data are non laboratory data.

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23/12/2023

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## Test Report

Customer : Aichi Forge (Thailand) Co.,Ltd.\*\*

Request No : W6612325

Address : 150/68 Pinthong Industrial Estate #2 Moo 9, Nongkham, Sriracha, Chonburi 20230\*\*

Report No : 6612-1395

Sampling Source : Pinthong Industrial Park 2\*\*

Sample No : W 66121107

Sample Name : น้ำขาออกระบบเคมี\*\*

Sampling Date : 12/12/2023\*\*

Sampling By : ETC\*\*

Sampling Time : 8:20 AM\*\*

Sampling Method : Grab\*\*

Received Date : 13/12/2023

Tested Date : 13/12/2023 - 21/12/2023

Reported Date : 23/12/2023

Parameter	Unit	Method	Result	Standard <sup>1/</sup>
pH (on site) *		Electrometric Method	6.8	5.5 - 9.0
Temperature *	°C	Laboratory and Field Method	30	≤45
Total Dissolved Solids #	mg/L	Dried at 180 degree celsius (SM:2540C)	1,588	≤3000
Total Kjeldahl Nitrogen *	mg/L as NH <sub>3</sub> -N	Macro Kjeldahl Method (SM:4500 -Norg B)	< 5	≤100
Total Suspended Solids #	mg/L	Dried at 103-105 degree celsius (SM:2540D)	< 5	≤200

Physical Apperance : 1. Sample : lightly SS

2. Container : Normal [ PE 0.5 L [ 2 Bottle], PE 1.0 L, PE 1.8 L ]

Remark : 1. /1 Notification of Industrial Estate Authority of Thailand 76 / 2560 (2017)

2. @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS,

SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.

4. \* = Test Report/Sampling marked Not Accredited, Sampling By Mr. Songpon Phiwuan (จ-003-ก-0016)\*

5. \*\* = These data are non laboratory data.

Examined By



23/12/2023

Eastern Thai Consulting 1992 Co., Ltd.

23/12/2023

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## Test Report

Request No : W6607318

Report No : 6607-2189

Customer : Aichi Forge (Thailand) Co.,Ltd.\*\*

Address : 150/68 Pinthong Industrial Estate #2 Moo 9, Nongkham, Sriracha, Chonburi 20230\*\*

Sampling Source : Pinthong Industrial Park 2\*\*

Sample No : W 66071198

Sample Name : น้ำขจัดไขมัน Septic\*\*

Sampling Date : 11/07/2023\*\*

Sampling By : ETC\*\*

Sampling Time : 9:00 AM\*\*

Sampling Method : Grab\*\*

Received Date : 12/07/2023

Tested Date : 12/07/2023 - 22/07/2023

Reported Date : 27/07/2023

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	6.7	≤500
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	< 40	≤750
Color (Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤600
Color (pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤600
Oil and Grease *	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site) *		Electrometric Method	7.4	5.5 - 9.0
Temperature *	°C	Laboratory and Field Method	29	≤45
Total Dissolved Solids #	mg/L	Dried at 180 C (SM:2540C)	540	≤3000

Physical Appearance : 1. Sample : yellowish, lightly SS

2. Container : Normal [ PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L ]

Remark : 1. /1 Notification of Industrial Estate Authority of Thailand 76 / 2560 (2017)

2. # = ISO/IEC 17025:2017 Accredited by DSS, SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.

4. \* = Test Report/Sampling marked Not Accredited, Sampling By Mr. Teerapong Nualin (จ-003-ค-5620)\*

5. \*\* = These data are non laboratory data.

Examined By



บริษัท อีสเทิร์นไทยคอนซัลติ้ง 1992 จำกัด

27/07/2023

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## Test Report

Request No : W6607318

Report No : 6607-2189

Customer : Aichi Forge (Thailand) Co.,Ltd.\*\*

Address : 150/68 Pinthong Industrial Estate #2 Moo 9, Nongkham, Sriracha, Chonburi 20230\*\*

Sampling Source : Pinthong Industrial Park 2\*\*

Sample No : W 66071198

Sample Name : น้ำทิ้งจากโรงงาน Septic\*\*

Sampling Date : 11/07/2023\*\*

Sampling By : ETC\*\*

Sampling Time : 9:00 AM\*\*

Sampling Method : Grab\*\*

Received Date : 12/07/2023

Tested Date : 12/07/2023 - 22/07/2023

Reported Date : 27/07/2023

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Total Kjeldahl Nitrogen *	mg/L as NH <sub>3</sub> -N	Macro Kjeldahl Method (SM:4500 -Norg B)	11	≤100
Total Suspended Solids #	mg/L	Dried at 103-105 C (SM:2540D)	< 5	≤200

Physical Appearance : 1. Sample : yellowish, lightly SS

2. Container : Normal [ PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L ]

Remark : 1. /1 Notification of Industrial Estate Authority of Thailand 76 / 2560 (2017)

2. # = ISO/IEC 17025:2017 Accredited by DSS, SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.

4. \* = Test Report/Sampling marked Not Accredited, Sampling By Mr. Teerapong Nualin (J-003-ก-5620)\*

5. \*\* = These data are non laboratory data

Examined By

27/07/2023

27/07/2023

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ACCREDITED  
ISO 9001 / ISO 14001

## EASTERN THAI CONSULTING 1992 CO., LTD.

683 Moo 11 Sukhapibarn 8 Rd., Nongkham, Sriracha, Chonburi 20230  
Tel. 0-3848-1197-8, 0-3876-3031-2 Fax : 0-3848-2095 E-mail : marketing@etc1992.com



TESTING  
No.0159

### Test Report

Request No : W6608397

Report No : 6608-2075

Customer : Aichi Forge (Thailand) Co.,Ltd.\*\*

Address : 150/68 Pinthong Industrial Estate #2 Moo 9, Nongkham, Sriracha, Chonburi 20230\*\*

Sampling Source : Pinthong Industrial Park 2\*\*

Sample No : W 66081333

Sample Name : น้ำจากบ่อขยะ Septic\*\*

Sampling Date : 16/08/2023\*\*

Sampling By : ETC\*\*

Sampling Time : 8:30 AM\*\*

Sampling Method : Grab\*\*

Received Date : 17/08/2023

Tested Date : 17/08/2023 - 25/08/2023

Reported Date : 30/08/2023

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	9.9	≤500
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	< 40	≤750
Color (Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	23	≤600
Color (pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	22	≤600
Oil and Grease *	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site) *		Electrometric Method	7.1	5.5 - 9.0
Temperature *	°C	Laboratory and Field Method	32	≤45
Total Dissolved Solids #	mg/L	Dried at 180 C (SM:2540C)	410	≤3000

Physical Apperance : 1. Sample : yellow, lightly SS

2. Container : Normal [ PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L ]

Remark : 1. /1 Notification of Industrial Estate Authority of Thailand 76 / 2560 (2017)

2. # = ISO/IEC 17025:2017 Accredited by DSS, SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.

4. \* = Test Report/Sampling marked Not Accredited, Sampling By Miss Pornpinan Viriyakusolkul (จ-003-ก-0036)\*

5. \*\* = These data are non laboratory data.

Examined By

30/08/2023

30/08/2023

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## Test Report

Request No : W6608397

Report No : 6608-2075

Customer : Aichi Forge (Thailand) Co.,Ltd.\*\*

Address : 150/68 Pinthong Industrial Estate #2 Moo 9, Nongkham, Sriracha, Chonburi 20230\*\*

Sampling Source : Pinthong Industrial Park 2\*\*

Sample No : W 66081333

Sample Name : น้ำทิ้งจากโรงงาน Septic\*\*

Sampling Date : 16/08/2023\*\*

Sampling By : ETC\*\*

Sampling Time : 8:30 AM\*\*

Sampling Method : Grab\*\*

Received Date : 17/08/2023

Tested Date : 17/08/2023 - 25/08/2023

Reported Date : 30/08/2023

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Total Kjeldahl Nitrogen *	mg/L as NH <sub>3</sub> -N	Macro Kjeldahl Method (SM:4500 -Norg B)	21	≤100
Total Suspended Solids #	mg/L	Dried at 103-105 C (SM:2540D)	5	≤200

Physical Apperance : 1. Sample : yellow, lightly SS

2. Container : Normal [ PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L ]

Remark : 1. /1 Notification of Industrial Estate Authority of Thailand 76 / 2560 (2017)

2. # = ISO/IEC 17025:2017 Accredited by DSS, SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

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4. \* = Test Report/Sampling marked Not Accredited, Sampling By Miss Pornpinan Viriyakusolkul (7-003-ก-0036)\*

5. \*\* = These data are non laboratory data.

Examined

30/08/2023

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30/08/2023

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## Test Report

Request No : W6609321

Report No : 6609-1845

Customer : Aichi Forge (Thailand) Co.,Ltd.\*\*

Address : 150/68 Pinthong Industrial Estate #2 Moo 9, Nongkham, Sriracha, Chonburi 20230\*\*

Sampling Source : Pinthong Industrial Park 2\*\*

Sample No : W 66091233

Sample Name : น้ำจากอกระบบ Septic\*\*

Sampling Date : 12/09/2023\*\*

Sampling By : ETC\*\*

Sampling Time : 8:50 AM\*\*

Sampling Method : Grab\*\*

Received Date : 13/09/2023

Tested Date : 13/09/2023 - 20/09/2023

Reported Date : 26/09/2023

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	15.0	≤500
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	41	≤750
Color(Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	29	≤600
Color(pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	33	≤600
Oil and Grease @	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site) *		Electrometric Method	7.2	5.5 - 9.0
Temperature *	°C	Laboratory and Field Method	26	≤45

Physical Appearance : 1. Sample : yellowish, lightly SS

2. Container : Normal [ PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L ]

Remark : 1. /1 Notification of Industrial Estate Authority of Thailand 76 / 2560 (2017)

2. @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS,

SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.

4. \* = Test Report/Sampling marked Not Accredited, Sampling By Miss Janthanee Saiphan (จ-003-ท-0018) \*

5. \*\* = These data are non laboratory data.

Examine

26/09/2023

26/09/2023

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## Test Report

Request No : W6609321

Report No : 6609-1845

Customer : Aichi Forge (Thailand) Co.,Ltd.\*\*

Address : 150/68 Pinthong Industrial Estate #2 Moo 9, Nongkham, Sriracha, Chonburi 20230\*\*

Sampling Source : Pinthong Industrial Park 2\*\*

Sample No : W 66091233

Sample Name : น้ำทิ้งจากโรงงาน Septic\*\*

Sampling Date : 12/09/2023\*\*

Sampling By : ETC\*\*

Sampling Time : 8:50 AM\*\*

Sampling Method : Grab\*\*

Received Date : 13/09/2023

Tested Date : 13/09/2023 - 20/09/2023

Reported Date : 26/09/2023

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Total Dissolved Solids #	mg/L	Dried at 180 degree celsius (SM:2540C)	330	≤3000
Total Kjeldahl Nitrogen *	mg/L as NH <sub>3</sub> -N	Macro Kjeldahl Method (SM:4500 -Norg B)	42	≤100
Total Suspended Solids #	mg/L	Dried at 103-105 degree celsius (SM:2540D)	5	≤200

Physical Apperance : 1. Sample : yellowish, lightly SS

2. Container : Normal [ PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L ]

Remark : 1. /1 Notification of Industrial Estate Authority of Thailand 76 / 2560 (2017)

2. @ = ISO/IEC 17025:2017 Accredited by TISI, # = ISO/IEC 17025:2017 Accredited by DSS,

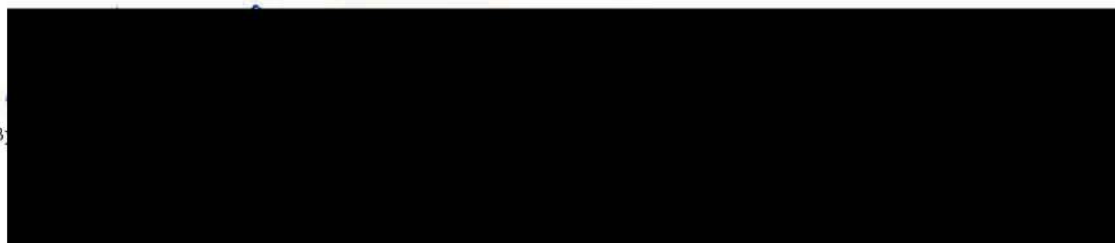
SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.

4. \* = Test Report/Sampling marked Not Accredited, Sampling By Miss Janthanee Saiphan (จ-003-ก-0018) \*

5. \*\* = These data are non laboratory data.

Examined By



26/09/2023

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## Test Report

Request No : W6610410

Report No : 6610-2154

Customer : Aichi Forge (Thailand) Co.,Ltd.\*\*

Address : 150/68 Pinthong Industrial Estate #2 Moo 9, Nongkham, Sriracha, Chonburi 20230\*\*

Sampling Source : Pinthong Industrial Park 2\*\*

Sample No : W 66101468

Sample Name : น้ำจากอกรระบบ Septic\*\*

Sampling Date : 17/10/2023\*\*

Sampling By : ETC\*\*

Sampling Time : 9:10 AM\*\*

Sampling Method : Grab\*\*

Received Date : 18/10/2023

Tested Date : 18/10/2023 - 27/10/2023

Reported Date : 30/10/2023

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	9.0	≤500
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	44	≤750
Color(Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	31	≤600
Color(pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	28	≤600
Oil and Grease @	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤10
pH (on site) *		Electrometric Method	7.4	5.5 - 9.0
Temperature *	°C	Laboratory and Field Method	32	≤45

Physical Appearance : 1. Sample : yellowish, lightly SS

2. Container : Normal [ PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L ]

Remark : 1. /1 Notification of Industrial Estate Authority of Thailand 76 / 2560 (2017)

2. @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS,

SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.

4. \* = Test Report/Sampling marked Not Accredited, Sampling By Miss Janthanee Saiphan (จ-003-ก-0018) \*

5. \*\* = These data are non laboratory data.

Examined By

30/10/2023

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30/10/2023

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## Test Report

Request No : W6610410

Report No : 6610-2154

Customer : Aichi Forge (Thailand) Co.,Ltd.\*\*

Address : 150/68 Pinthong Industrial Estate #2 Moo 9, Nongkham, Sriracha, Chonburi 20230\*\*

Sampling Source : Pinthong Industrial Park 2\*\*

Sample No : W 66101468

Sample Name : น้ำทิ้งจากโรงงาน Septic\*\*

Sampling Date : 17/10/2023\*\*

Sampling By : ETC\*\*

Sampling Time : 9:10 AM\*\*

Sampling Method : Grab\*\*

Received Date : 18/10/2023

Tested Date : 18/10/2023 - 27/10/2023

Reported Date : 30/10/2023

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Total Dissolved Solids #	mg/L	Dried at 180 degree celsius (SM:2540C)	440	≤3000
Total Kjeldahl Nitrogen *	mg/L as NH <sub>3</sub> -N	Macro Kjeldahl Method (SM:4500 -Norg B)	24	≤100
Total Suspended Solids #	mg/L	Dried at 103-105 degree celsius (SM:2540D)	< 5	≤200

Physical Apperance : 1. Sample : yellowish, lightly SS

2. Container : Normal [ PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L ]

Remark : 1. /1 Notification of Industrial Estate Authority of Thailand 76 / 2560 (2017)

2. @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS,

SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.

4. \* = Test Report/Sampling marked Not Accredited, Sampling By Miss Janthanee Saiphan (จ-003-ก-0018) \*

5. \*\* = These data are non laboratory data.

Examined By

30/10/2023

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30/10/2023

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## Test Report

Request No : W6611414

Report No : 6611-2146

Customer : Aichi Forge (Thailand) Co.,Ltd.\*\*

Address : 150/68 Pinthong Industrial Estate #2 Moo 9, Nongkham, Sriracha, Chonburi 20230\*\*

Sampling Source : Pinthong Industrial Park 2\*\*

Sample No : W 66111414

Sample Name : น้ำขบถอกรบ Septic\*\*

Sampling Date : 15/11/2023\*\*

Sampling By : ETC\*\*

Sampling Time : 9:00 AM\*\*

Sampling Method : Grab\*\*

Received Date : 16/11/2023

Tested Date : 16/11/2023 - 22/11/2023

Reported Date : 29/11/2023

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤ 500
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	< 40	≤ 750
Color (Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 600
Color (pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 600
Oil and Grease @	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 10
pH (on site) *		Electrometric Method	7.2	5.5 - 9.0
Temperature *	°C	Laboratory and Field Method	30	≤ 45

Physical Appearance : 1. Sample : yellowish, lightly SS

2. Container : Normal [ PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L ]

Remark : 1. /I Notification of Industrial Estate Authority of Thailand 76 / 2560 (2017)

2. @ = ISO/IEC 17025:2017 Accredited by TISI., # = ISO/IEC 17025:2017 Accredited by DSS,

SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.

4. \* = Test Report/Sampling marked Not Accredited, Sampling By Miss Janthanee Saiphan (จ-003-ก-0018) \*

5. \*\* = These data are non laboratory data.

Examined

## Test Report

Request No : W6611414

Report No : 6611-2146

Customer : Aichi Forge (Thailand) Co.,Ltd.\*\*

Address : 150/68 Pinthong Industrial Estate #2 Moo 9, Nongkham, Sriracha, Chonburi 20230\*\*

Sampling Source : Pinthong Industrial Park 2\*\*

Sample No : W 66111414

Sample Name : น้ำพาสเจอร์ไรซ์ Septic\*\*

Sampling Date : 15/11/2023\*\*

Sampling By : ETC\*\*

Sampling Time : 9:00 AM\*\*

Sampling Method : Grab\*\*

Received Date : 16/11/2023

Tested Date : 16/11/2023 - 22/11/2023

Reported Date : 29/11/2023

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Total Dissolved Solids #	mg/L	Dried at 180 degree celsius (SM:2540C)	138	≤3000
Total Kjeldahl Nitrogen *	mg/L as NH <sub>3</sub> -N	Macro Kjeldahl Method (SM:4500 -Norg B)	< 5	≤100
Total Suspended Solids #	mg/L	Dried at 103-105 degree celsius (SM:2540D)	< 5	≤200

Physical Appearance : 1. Sample : yellowish, lightly SS

2. Container : Normal [ PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L ]

Remark : 1. /I Notification of Industrial Estate Authority of Thailand 76 / 2560 (2017)

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4. \* = Test Report/Sampling marked Not Accredited, Sampling By Miss Janthanee Saiphan (จ-003-ก-0018) \*

5. \*\* = These data are non laboratory data.

Exami



## Test Report

Request No : W6612325

Report No : 6612-1393

Customer : Aichi Forge (Thailand) Co.,Ltd.\*\*

Address : 150/68 Pinthong Industrial Estate #2 Moo 9, Nongkham, Sriracha, Chonburi 20230\*\*

Sampling Source : Pinthong Industrial Park 2\*\*

Sample No : W 66121105

Sample Name : น้ำจากถังบำบัด Septic\*\*

Sampling Date : 12/12/2023\*\*

Sampling By : ETC\*\*

Sampling Time : 8:25 AM\*\*

Sampling Method : Grab\*\*

Received Date : 13/12/2023

Tested Date : 13/12/2023 - 21/12/2023

Reported Date : 23/12/2023

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Biochemical Oxygen Demand #	mg/L	5-Day BOD Test, Membrane Electrode Method (SM:5210B)	< 2.0	≤ 500
Chemical Oxygen Demand #	mg/L	Closed Reflux, Titrimetric Method (SM:5220C)	< 40	≤ 750
Color (Original) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	< 20	≤ 600
Color (pH 7.0) *	ADMI	ADMI Weighted Ordinate Spectrophotometric Method (SM:2120F)	20	≤ 600
Oil and Grease @	mg/L	Partition-Gravimetric Method (SM:5520B)	< 3.0	≤ 10
pH (on site) *		Electrometric Method	7.7	5.5 - 9.0
Temperature *	°C	Laboratory and Field Method	28	≤ 45

Physical Appearance : 1. Sample : yellowish, lightly SS

2. Container : Normal [ PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L ]

Remark : 1. /1 Notification of Industrial Estate Authority of Thailand 76 / 2560 (2017)

2. @ = ISO/IEC 17025:2017 Accredited by TISI, # = ISO/IEC 17025:2017 Accredited by DSS,

SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

3. Miss Apiradee Chuen-arom is Section Head / Miss Nunnaphat Bakhuntod is Technical Management.

4. \* = Test Report/Sampling marked Not Accredited, Sampling By Mr. Songpon Phiwuan (J-003-P-0016)\*

5. \*\* = These data are non laboratory data.

Examined

23/12/2023

23/12/2023

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## Test Report

Request No : W6612325

Report No : 6612-1393

Customer : Aichi Forge (Thailand) Co.,Ltd.\*\*

Address : 150/68 Pinthong Industrial Estate #2 Moo 9, Nongkham, Sriracha, Chonburi 20230\*\*

Sampling Source : Pinthong Industrial Park 2\*\*

Sample No : W 66121105

Sample Name : น้ำทิ้งจากโรงงาน Septic\*\*

Sampling Date : 12/12/2023\*\*

Sampling By : ETC\*\*

Sampling Time : 8:25 AM\*\*

Sampling Method : Grab\*\*

Received Date : 13/12/2023

Tested Date : 13/12/2023 - 21/12/2023

Reported Date : 23/12/2023

Parameter	Unit	Method	Result	Standard <sup>1</sup>
Total Dissolved Solids #	mg/L	Dried at 180 degree celsius (SM:2540C)	236	≤3000
Total Kjeldahl Nitrogen *	mg/L as NH <sub>3</sub> -N	Macro Kjeldahl Method (SM:4500 -Norg B)	< 5	≤100
Total Suspended Solids #	mg/L	Dried at 103-105 degree celsius (SM:2540D)	< 5	≤200

Physical Apperance : 1. Sample : yellowish, lightly SS

2. Container : Normal [ PE 0.5 L, PE 1.0 L, PE 1.8 L, G 1.0 L ]

Remark : 1. /1 Notification of Industrial Estate Authority of Thailand 76 / 2560 (2017)

2. @ = ISO/IEC 17025:2017 Accredited by TISI, # = ISO/IEC 17025:2017 Accredited by DSS,

SM = Standard Methods for the Examination of Water and Wastewater, APHA, AWWA, WEF, 23rd Edition, 2017.

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4. \* = Test Report/Sampling marked Not Accredited, Sampling By Mr. Songpon Phiwuan (3-003-0-0016)\*

5. \*\* = These data are non laboratory data.

Examined By

23/12/2023

23/12/2023

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