

ภาคผนวก ข-6

ผลการจัดทำ Noise Contour Map



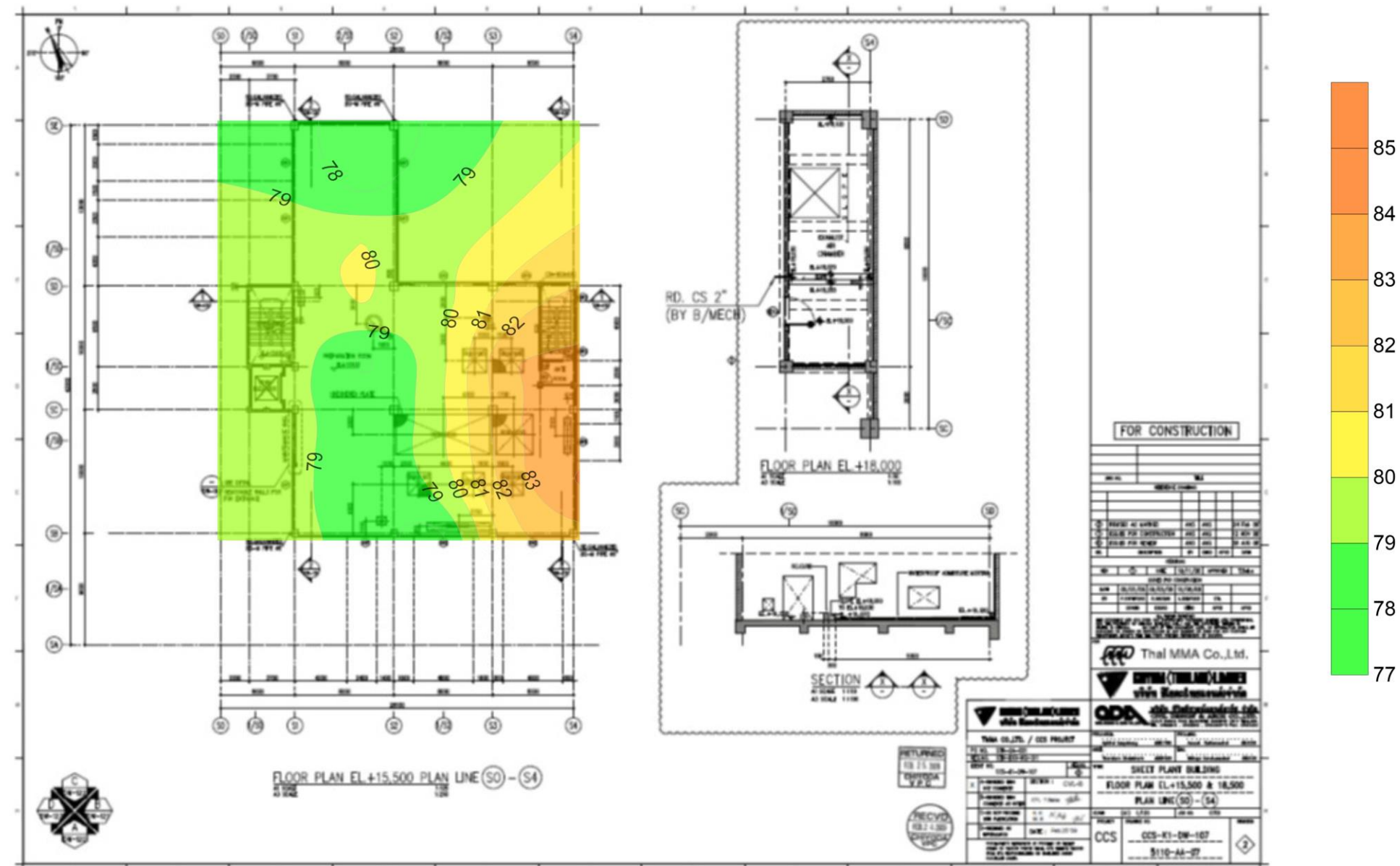
Noise Contour Map

THAI MMA Co., Ltd. (Site 7)

(CCS - F4)

Reference Number : Lot 2332386-1

Measurement Date : Apr 25, 2023



ADDRESS 104 Phatthanakan 40, Phatthanakan Rd., Khwaeng Suan Luang, Khet Suan Luang, Bangkok 10250, Thailand | PHONE +66 0 2760 3000 | FAX +66 0 2760 3197
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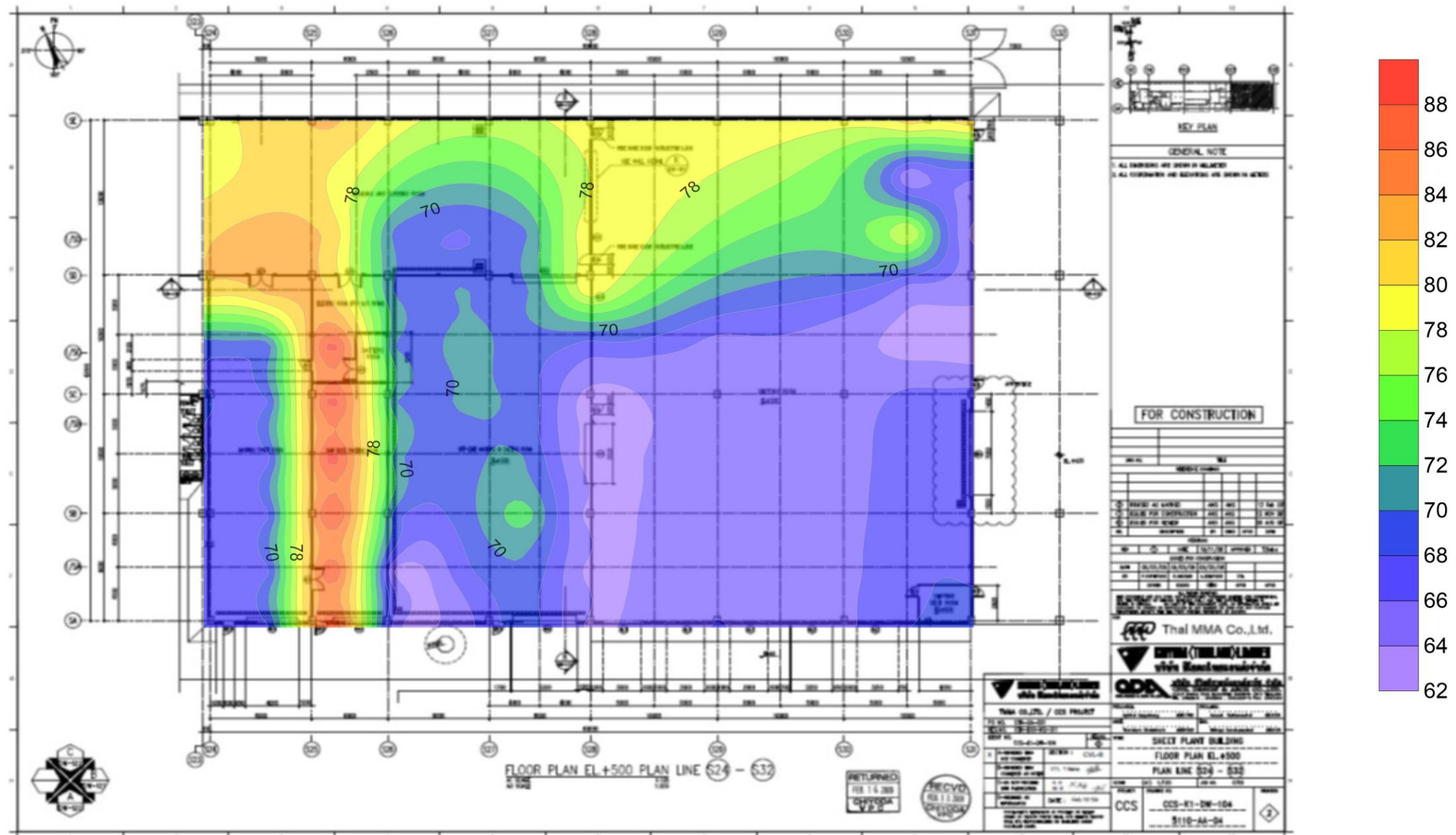
Noise Contour Map

THAI MMA Co., Ltd. (Site 7)

(CCS - F1 - 04)

Reference Number : Lot 2345300-1

Measurement Date : Apr 25, 2023



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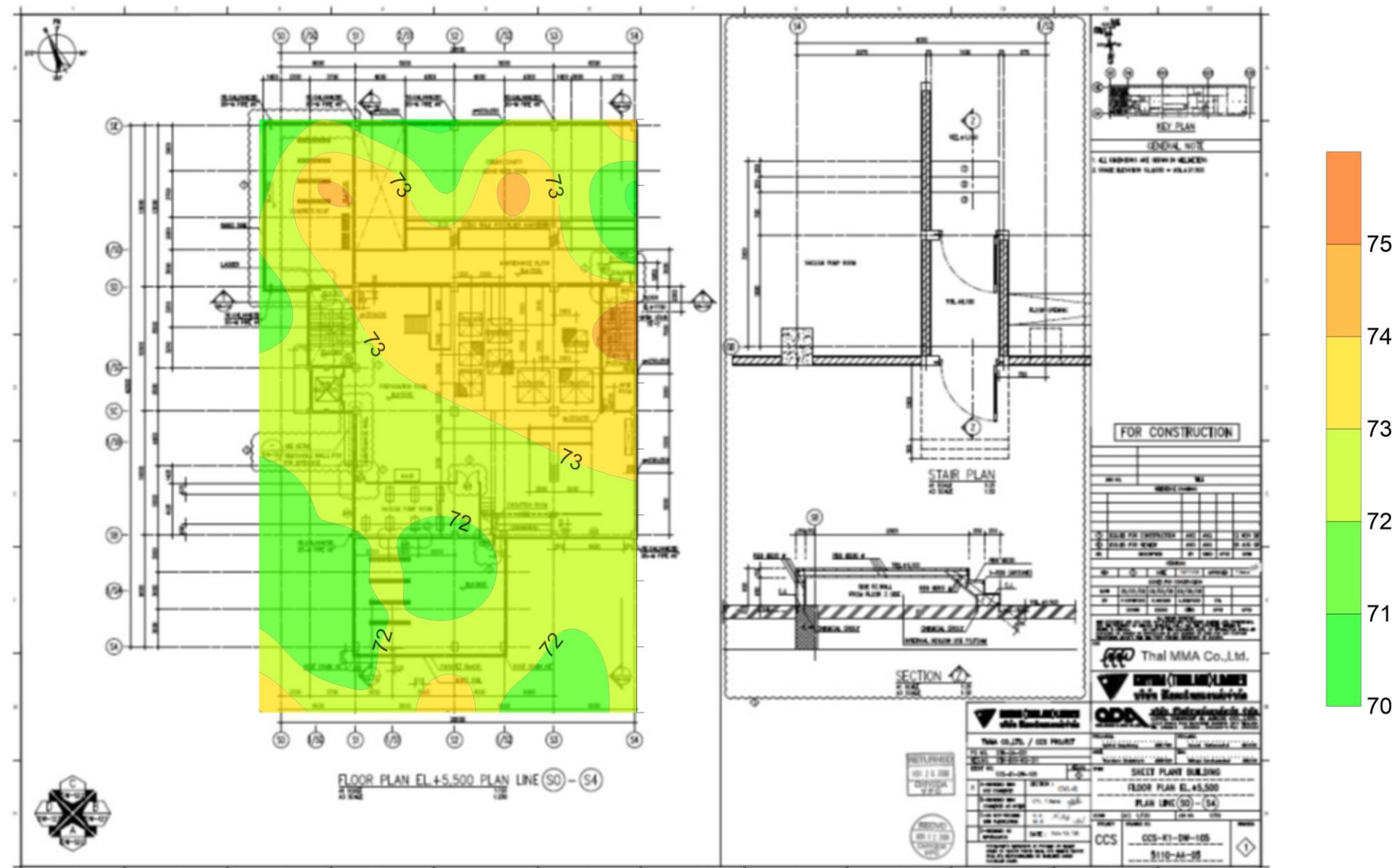
Noise Contour Map

THAI MMA Co., Ltd. (Site 7)

(CCS - F2)

Reference Number : Lot 2345302-1

Measurement Date : Apr 25, 2023



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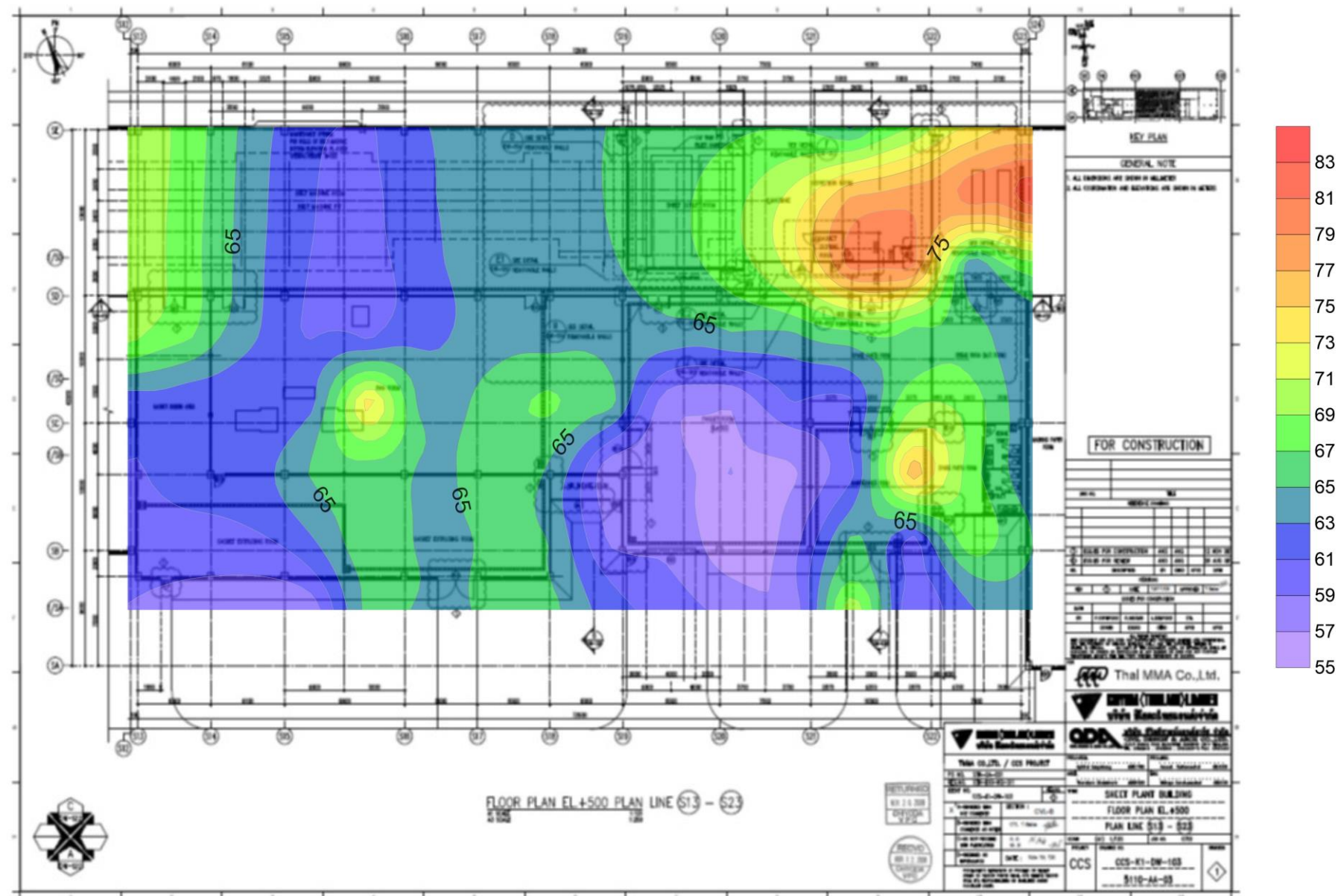
Noise Contour Map

THAI MMA Co., Ltd. (Site 7)

(CCS - F1 - 03)

Reference Number : Lot 2345304-1

Measurement Date : Apr 25, 2023



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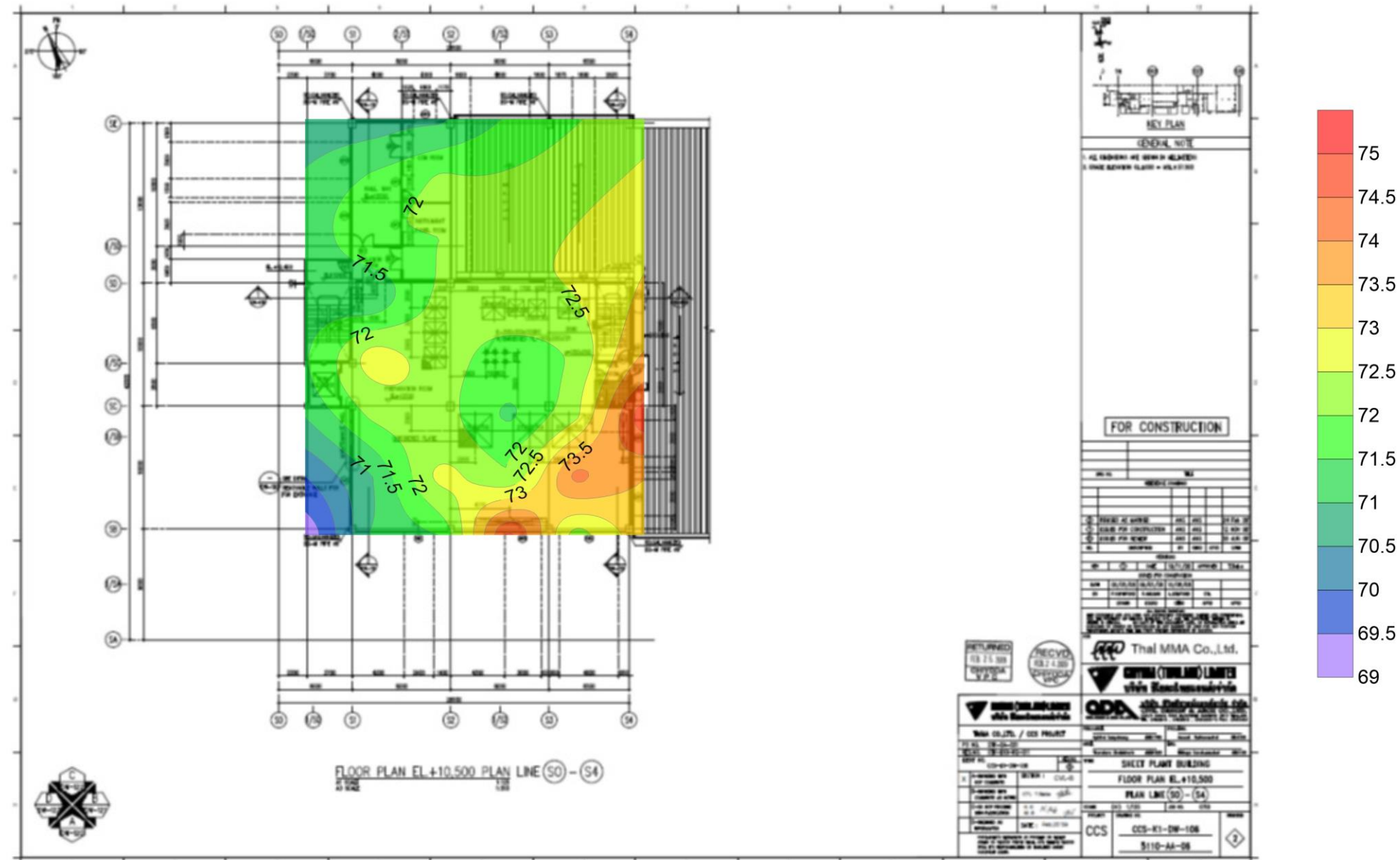
Noise Contour Map

THAI MMA Co., Ltd. (Site 7)

(CCS - F3)

Reference Number : Lot 2345306-1

Measurement Date : Apr 25, 2023



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ภาคผนวก ข-7

เอกสารการตรวจสอบ Pump และ Compressor

17-Jan-2023

MESSRS. **THAI MMA CO.,LTD.**

KOBELCO SCREW COMPRESSOR SERVICE REPORT

MODEL: ALE55W-5
SERIAL NO: 3FA01083
MACHINE NO: BM-807-2 NO.3
OPERATING HOURS: 62364
DATE OF SERVICE: 20-Oct-2022

WORK DETAILS

CLEANED INTERCOOLER

CLEANED AFTERCOOLER

CLEANED OIL COOLER

8000 HOURS PARTS CHANGE

CHANGE 1ST STAGE AIR END

CHECK SHEET

INSPECTION ITEMS	RESULTS BEFORE COUNTERMEASURE	COUNTERMEASURE
COMPRESSOR PROPER Visual Inspection of 1st Stage Air End Visual Inspection of 2nd Stage Air End Balance Piston Diaphragm Any Sign of Abnormal Noise Any Sign of Abnormal Vibration Air leakage from Shaft Seal Section <input type="checkbox"/> OUT OF SCOPE	<input type="checkbox"/> GOOD <input checked="" type="checkbox"/> DEFECTIVE <input type="checkbox"/> GOOD <input type="checkbox"/> DEFECTIVE <input type="checkbox"/> GOOD <input type="checkbox"/> HARDENED <input type="checkbox"/> NORMAL <input type="checkbox"/> ABNORMAL <input type="checkbox"/> NORMAL <input type="checkbox"/> ABNORMAL <input type="checkbox"/> LITTLE <input type="checkbox"/> EXCESSIVE	<input checked="" type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT <input type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT <input type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT
SUCTION FILTER Contamination of Element <input type="checkbox"/> OUT OF SCOPE	<input type="checkbox"/> LITTLE <input checked="" type="checkbox"/> EXCESSIVE	<input type="checkbox"/> CLEANED <input checked="" type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT
SUCTION DUCT Contamination Inside Tube Breakage / Cracking of Duct House <input checked="" type="checkbox"/> OUT OF SCOPE	<input type="checkbox"/> LITTLE <input type="checkbox"/> EXCESSIVE <input type="checkbox"/> NORMAL <input type="checkbox"/> CRACK <input type="checkbox"/> HARDENED	<input type="checkbox"/> CLEANED <input type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT
OIL FILTER Foreign matter in Element <input type="checkbox"/> OUT OF SCOPE	<input type="checkbox"/> LITTLE <input checked="" type="checkbox"/> EXCESSIVE	<input checked="" type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT
LUBRICANT OIL <input type="checkbox"/> OUT OF SCOPE	<input type="checkbox"/> OK <input checked="" type="checkbox"/> NOT GOOD	<input checked="" type="checkbox"/> REPLACED <input type="checkbox"/> TOP UP <input type="checkbox"/> NEED REPLACEMENT TYPE:DAPHNE TUBINE OIL 68 <input type="checkbox"/> CUSTOMERS OIL
DRAIN SOLENOID VALVE Intercooler Drain Aftercooler Drain <input checked="" type="checkbox"/> OUT OF SCOPE	<input type="checkbox"/> NORMAL <input type="checkbox"/> DEFECTIVE <input type="checkbox"/> NORMAL <input type="checkbox"/> DEFECTIVE	<input type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT <input type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT
DISCHARGE CHECK VALVE Wear in Seat Surface <input type="checkbox"/> OUT OF SCOPE	<input type="checkbox"/> NORMAL <input type="checkbox"/> LEAK <input checked="" type="checkbox"/> WEAR	<input checked="" type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT
3-WAY SOLENOID VALVE Operation <input checked="" type="checkbox"/> OUT OF SCOPE	<input type="checkbox"/> NORMAL <input type="checkbox"/> DEFECTIVE	<input type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT
EXHAUST CLEANER Damage/Contamination <input type="checkbox"/> OUT OF SCOPE	<input type="checkbox"/> LITTLE <input type="checkbox"/> EXCESSIVE	<input checked="" type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT
CAPACITY CONTROL VALVE Diaphragm Condition Slider Lock Nut Slider Shaft Operation <input checked="" type="checkbox"/> OUT OF SCOPE	<input type="checkbox"/> NORMAL <input type="checkbox"/> TORN <input checked="" type="checkbox"/> HARDENED <input type="checkbox"/> NORMAL <input checked="" type="checkbox"/> WEAR <input type="checkbox"/> NORMAL <input checked="" type="checkbox"/> WEAR <input type="checkbox"/> NORMAL <input checked="" type="checkbox"/> DAMAGED <input type="checkbox"/> NORMAL <input type="checkbox"/> DEFECTIVE	<input checked="" type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT <input checked="" type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT <input checked="" type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT <input checked="" type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT <input type="checkbox"/> CHANGED NEW CAPACITY CONTROL VALVE
SHUTTLE VALVE Operation <input checked="" type="checkbox"/> OUT OF SCOPE	<input type="checkbox"/> NORMAL <input type="checkbox"/> DEFECTIVE	<input type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT

CHECK SHEET

INSPECTION ITEMS	RESULTS BEFORE COUNTERMEASURE	COUNTERMEASURE
INTERCOOLER Scale adhering to tube nest Corrosion of Shell Corrosion of Tube Assy (Leakage) Corrosion of Covers Contamination inside the tube Packings <input type="checkbox"/> OUT OF SCOPE	<input type="checkbox"/> LITTLE <input checked="" type="checkbox"/> EXCESSIVE <input checked="" type="checkbox"/> LITTLE <input type="checkbox"/> EXCESSIVE <input checked="" type="checkbox"/> LITTLE <input type="checkbox"/> EXCESSIVE <input checked="" type="checkbox"/> LITTLE <input type="checkbox"/> EXCESSIVE <input type="checkbox"/> LITTLE <input checked="" type="checkbox"/> EXCESSIVE <input type="checkbox"/> NORMAL <input checked="" type="checkbox"/> HARDENED	<input type="checkbox"/> REPLACED NEW SET <input type="checkbox"/> NEED REPLACEMENT FOR NEW SET <input checked="" type="checkbox"/> DISSEMBLED AND CLEANED <input type="checkbox"/> CHEMICAL CIRCULATION <input type="checkbox"/> REPLACED <input checked="" type="checkbox"/> REPAIRED <input type="checkbox"/> NEED REPLACEMENT <input type="checkbox"/> REPLACED <input checked="" type="checkbox"/> REPAIRED <input type="checkbox"/> NEED REPLACEMENT <input type="checkbox"/> REPLACED <input checked="" type="checkbox"/> REPAIRED <input type="checkbox"/> NEED REPLACEMENT <input checked="" type="checkbox"/> DISSEMBLED AND CLEANED <input type="checkbox"/> NEED REPLACEMENT <input checked="" type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT
AFTERCOOLER Scale adhering to tube nest Corrosion of Shell Corrosion of Tube Assy (Leakage) Corrosion of Covers Contamination inside the tube Packings <input type="checkbox"/> OUT OF SCOPE	<input type="checkbox"/> LITTLE <input checked="" type="checkbox"/> EXCESSIVE <input checked="" type="checkbox"/> LITTLE <input type="checkbox"/> EXCESSIVE <input checked="" type="checkbox"/> LITTLE <input type="checkbox"/> EXCESSIVE <input checked="" type="checkbox"/> LITTLE <input type="checkbox"/> EXCESSIVE <input type="checkbox"/> LITTLE <input checked="" type="checkbox"/> EXCESSIVE <input type="checkbox"/> NORMAL <input checked="" type="checkbox"/> HARDENED	<input type="checkbox"/> REPLACED NEW SET <input type="checkbox"/> NEED REPLACEMENT FOR NEW SET <input checked="" type="checkbox"/> DISSEMBLED AND CLEANED <input type="checkbox"/> CHEMICAL CIRCULATION <input type="checkbox"/> REPLACED <input checked="" type="checkbox"/> REPAIRED <input type="checkbox"/> NEED REPLACEMENT <input type="checkbox"/> REPLACED <input checked="" type="checkbox"/> REPAIRED <input type="checkbox"/> NEED REPLACEMENT <input type="checkbox"/> REPLACED <input checked="" type="checkbox"/> REPAIRED <input type="checkbox"/> NEED REPLACEMENT <input checked="" type="checkbox"/> DISSEMBLED AND CLEANED <input type="checkbox"/> NEED REPLACEMENT <input checked="" type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT
OIL COOLER Clogging in tube Contaminatin of tube nest Corrosion of blind cover Packings <input type="checkbox"/> OUT OF SCOPE	<input checked="" type="checkbox"/> LITTLE <input type="checkbox"/> EXCESSIVE <input checked="" type="checkbox"/> LITTLE <input type="checkbox"/> EXCESSIVE <input checked="" type="checkbox"/> LITTLE <input type="checkbox"/> EXCESSIVE <input type="checkbox"/> NORMAL <input checked="" type="checkbox"/> HARDENED	<input type="checkbox"/> REPLACED NEW SET <input type="checkbox"/> NEED REPLACEMENT FOR NEW SET <input type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT <input type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT <input type="checkbox"/> REPLACED <input checked="" type="checkbox"/> REPAIRED <input type="checkbox"/> NEED REPLACEMENT <input checked="" type="checkbox"/> REPLACED <input type="checkbox"/> REUSED
SENSORS 1st Stage dis.pressure sensor 2nd Stage dis.pressure sensor Oil pressure sensor 1st Stage temp sensor 2nd Stage temp sensor Oil temp sensor <input checked="" type="checkbox"/> OUT OF SCOPE	<input type="checkbox"/> NORMAL <input type="checkbox"/> ERROR ----- MPA <input type="checkbox"/> NORMAL <input type="checkbox"/> ERROR ----- MPA <input type="checkbox"/> NORMAL <input type="checkbox"/> ERROR ----- MPA <input type="checkbox"/> NORMAL <input type="checkbox"/> ERROR ----- °C <input type="checkbox"/> NORMAL <input type="checkbox"/> ERROR ----- °C <input type="checkbox"/> NORMAL <input type="checkbox"/> ERROR ----- °C	<input type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT <input type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT <input type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT <input type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT <input type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT <input type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT
MOTOR Stator Bearings <input checked="" type="checkbox"/> OUT OF SCOPE	<input type="checkbox"/> NORMAL <input type="checkbox"/> LOW RESISTANCE <input type="checkbox"/> BURNT <input type="checkbox"/> NORMAL <input type="checkbox"/> DEFECT	<input type="checkbox"/> REWIND <input type="checkbox"/> CLEANED <input type="checkbox"/> NEED CLEANING <input type="checkbox"/> CHANGED BEARING <input type="checkbox"/> NEED BEARING CHANGE
FAN MOTOR Stator Bearings <input checked="" type="checkbox"/> OUT OF SCOPE	<input type="checkbox"/> NORMAL <input type="checkbox"/> LOW RESISTANCE <input type="checkbox"/> BURNT <input type="checkbox"/> NORMAL <input type="checkbox"/> DEFECT	<input type="checkbox"/> REPLACED NEW SET <input type="checkbox"/> NEED REPLACEMENT FOR NEW SET <input type="checkbox"/> REWIND <input type="checkbox"/> CLEANED <input type="checkbox"/> NEED CLEANING <input type="checkbox"/> CHANGED BEARING <input type="checkbox"/> NEED BEARING CHANGE

MODEL ALE55W-5 SERIAL 3FA01083



AFTERCOOLER BEFORE CLEANING

MODEL ALE55W-5 SERIAL 3FA01083



AFTERCOOLER AFTER CLEANING

MODEL ALE55W-5 SERIAL 3FA01083



AFTERCOOLER BEFORE CLEANING

MODEL ALE55W-5 SERIAL 3FA01083



AFTERCOOLER AFTER CLEANING

MODEL ALE55W-5 SERIAL 3FA01083



AFTERCOOLER BEFORE CLEANING

MODEL ALE55W-5 SERIAL 3FA01083



AFTERCOOLER AFTER CLEANING

MODEL ALE55W-5 SERIAL 3FA01083



OIL COOLER BEFORE CLEANING

MODEL ALE55W-5 SERIAL 3FA01083



OIL COOLER AFTER CLEANING

MODEL ALE55W-5 SERIAL 3FA01083



OIL COOLER BEFORE CLEANING

MODEL ALE55W-5 SERIAL 3FA01083



OIL COOLER AFTER CLEANING

MODEL ALE55W-5 SERIAL 3FA01083



OIL COOLER BEFORE CLEANING

MODEL ALE55W-5 SERIAL 3FA01083



OIL COOLER AFTER CLEANING

MODEL ALE55W-5 SERIAL 3FA01083



INTERCOOLER BEFORE CLEANING

MODEL ALE55W-5 SERIAL 3FA01083



INTERCOOLER AFTER CLEANING

MODEL ALE55W-5 SERIAL 3FA01083



INTERCOOLER BEFORE CLEANING

MODEL ALE55W-5 SERIAL 3FA01083



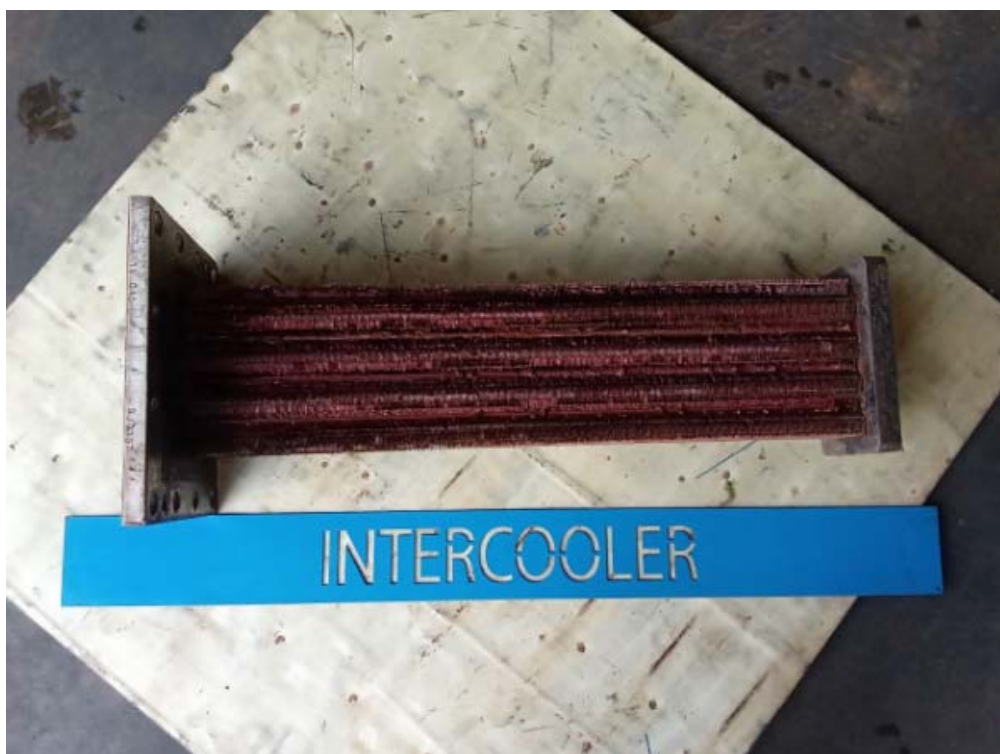
INTERCOOLER AFTER CLEANING

MODEL ALE55W-5 SERIAL 3FA01083



INTERCOOLER BEFORE CLEANING

MODEL ALE55W-5 SERIAL 3FA01083



INTERCOOLER AFTER CLEANING

WARRANTY CONDITIONS FOR PARTS AND SERVICE

1.WARRANTY PERIOD: AS IN BELOW TABLE

Parts and Job Details	Models	Warranty Period
Filters and elements and other mechanical parts	All models	3000 hours or 12 months after replacement, whichever comes first
Electrical parts	All models	12 months after replacement
Air end Bearings and coolers	HM, KST, AM and older models	6 months after replacement
	Models newer than above	12 months after replacement
Rewinding Motor	HM, KST, AM and older models	6 months after job completed
	Other Models (Less than 55 kw)	6 months after job completed
	Other Models (55 kw and above)	12 months after job completed
Overhaul Motor or Change Motor Bearings	HM, KST, AM and older models	3 months after job completed
	Other Models (Less than 55 kw)	3 months after job completed
	Other Models (55 kw and above)	6 months after job completed
Lubricant	All Models	No warranty, depends on environment and change of filters
Cooler cleaning	All Models	No warranty, depends on environment and water quality

2.CONTENTS OF WARRANTY

In case a trouble should occur during the warranty period and when it is determined that the trouble is caused clearly by our defective design, manufacture and or execution of work, We will repair or replace the parts free of charge without delay.

3.EXCEPTIONS TO THE APPLICATION OF WARRANTY

Even during the warranty period of this machine, we refuse warranty in the following cases.

- Trouble caused by the natural disasters or accidents beyond human control.
- Trouble caused by a defective material selected or supplied by customer, or caused by a defect resulted from the design designated by customer.
- Trouble caused by a repair or modification conducted by customer without notifying us of the fact.
- Trouble caused by not adhering to the operating procedures, periodical inspections, maintenance and storage, etc. described in the specification sheets and instruction manuals issued by us.
- Trouble caused by not greasing at proper intervals as recommended in instruction manual. Grease-up of Motor is responsibility of customer.
- Trouble caused by defective foundation, building and/or equipment other than this machine.
- Reduction of production due to a trouble of this machine, We do not honour compensation for production shutdown and other loss casualties. Warranty is only limited to machine serviced.
- Warranty will be void if customer uses non-genuine parts or oil not recommended by us (Supplier or Contractor).

KORAT : TEL. 0-4498-4125 / PRACHINBURI : TEL. 0-3720-8038 / AMATA NAKORN : TEL. 0-3805-7169

DATE : 30/10/22

T.MMA

RY-MAPTAPHUT

ALE 55W

3FA01088

3008

Room Temp : 38 °C

Cooling Water Temp : °C (< 35 / < 45 °C)

Cooling Water Pressure : kgf/cm² G (In/out) [1.5 ~ 5.0 kgf/cm² G]

Air Tank M³, Pressure kgf/cm² G

Link/Gr.Controller

1. ☐ Commissioning

2. ☐ Maintenance Contract

3. ☐ Routine check

4. ☐ Cooler Cleaning

5. ☒ Parts Change : 8000 (Hrs)

6. ☒ Air End Change

7. ☐ Top up (Type)

8. ☒ Change, Replace Oil (Type T68)

9. ☐ Claim

10. MOTOR : Grease up (Type)

☐ Bearing Change

☐ Varnish

☐ Rewinding

11. Others

12. Load cycle : 753 sec

13. 1st-stage Dis. Pressure : Unload -0.25 mmHg(AL), bar(ALE,FE), Load 0.04 kgf/cm² G

14. 2nd-stage Dis. Pressure : 6.4, 6.4, 6.4 kgf/cm² G (Load / Unload / Normal)

15. 2nd-stage Suction Temp. 33 °C [ALE,FE : below 80 °C / AL : ambient + 15 ~ 20 °C (max 60 °C)]

16. 1st-stage Dis. Temp. 159 °C

17. 2nd-stage Dis. Temp. 149 °C

18. Oil Pressure : 2.3 kgf/cm² G [ALE < 45Kw, FE : 0.6~1.8 / ALE > 45Kw, AL : 2~2.5]

19. Oil Temp. 38 °C [ALE,FE : below 75 / AL : W -65, A -75]

20. Loaded Hour : 38056

21. Load counter : 338089

22. Total Hour : 62364

23. Voltage:R-S 399, 401 V, R-T 399, 401 V, S-T 399, 401 V (load / unload)

24. Ampere : R 98, 39 A, S 98, 39 A, T 94, 40 A (load / unload)

25. CHECK FOR CORRECT FUNCTIONS

Pressure reducing valve 1.5 kgf/cm² G for ALE < 45Kw(2.5~3.0)

Air filter sensor ☒ OK ☐ NOT GOOD

Battery ☒ OK ☐ NOT GOOD

*** OCR ☐ OK ☐ NOT GOOD

*** Star delta timer 10 sec

**** Safety valve operates at 8.5 kgf/cm² G [spec x 1.1]

**** Discharge temp. relay trips at 1st 105 / 2nd 105 °C [spec]

26. DRYER

CHECK SERVICE

Model : - ☐ ☐

S/N : - Dew point : °C

Inlet Pressure: kgf/cm² G

27. FILTER

CHECK SERVICE REPLACE

1) - ☐ ☐ ☐

2) - ☐ ☐ ☐

3) - ☐ ☐ ☐

+ Motor Insulation U-E V-E W-E

REMARKS : AIR COMPRESSOR ☐ normal ☐ abnormal

* CHANGE AIREND 1st-stage

* เปลี่ยนแก๊ส 3M 809-7

* เปลี่ยนจากฟิลเตอร์ธรรมดา

* Discharge silencer and check

val ve 12 o หารเปลี่ยน

28. MAINTENANCE

CHECK SERVICE REPLACE

gauges, instruments, lights ☒ ☐ ☐

capacity control valve ☒ ☒ ☐

1st & 2nd stage air end ☒ ☐ ☐

3,4-way solenoid valve (C.C.V.) ☒ ☐ ☐

fan motor (noise) ☒ ☐ ☐

by-pass silencer ☒ ☐ ☐

check valve*** ☐ ☐ ☐

oil pump ☒ ☐ ☐

main motor (noise) ☒ ☐ ☐

oil ☐ ☐ ☒

oil cartridge ☐ ☐ ☒

*drain trap (Solenoid Valve) ☒ ☐ ☐

suction filter ☐ ☐ ☒

Intercooler ☒ ☐ ☐

aftercooler ☒ ☐ ☐

oil cooler ☒ ☐ ☐

breather element/exhaust cleaner ☐ ☐ ☒

control air filter (AL Only) ☐ ☐ ☐

shuttle valve ☒ ☐ ☐

check for leak ☒ ☐ ☐

sensor*** ☐ ☐ ☐

SERVICE BY

PAIOMONG ANUCHAI

DICHANAI SOMPARONG

ACCEPTED BY

สุเมธ งาม

OTHER INFORMATION

* ศึกษามาตรฐาน 12/18/18/1/2/3/4/5/6/7/8/9/10/11/12/13/14/15/16/17/18/19/20/21/22/23/24/25/26/27/28/29/30/31/32/33/34/35/36/37/38/39/40/41/42/43/44/45/46/47/48/49/50/51/52/53/54/55/56/57/58/59/60/61/62/63/64/65/66/67/68/69/70/71/72/73/74/75/76/77/78/79/80/81/82/83/84/85/86/87/88/89/90/91/92/93/94/95/96/97/98/99/100/101/102/103/104/105/106/107/108/109/110/111/112/113/114/115/116/117/118/119/120/121/122/123/124/125/126/127/128/129/130/131/132/133/134/135/136/137/138/139/140/141/142/143/144/145/146/147/148/149/150/151/152/153/154/155/156/157/158/159/160/161/162/163/164/165/166/167/168/169/170/171/172/173/174/175/176/177/178/179/180/181/182/183/184/185/186/187/188/189/190/191/192/193/194/195/196/197/198/199/200/201/202/203/204/205/206/207/208/209/210/211/212/213/214/215/216/217/218/219/220/221/222/223/224/225/226/227/228/229/230/231/232/233/234/235/236/237/238/239/240/241/242/243/244/245/246/247/248/249/250/251/252/253/254/255/256/257/258/259/260/261/262/263/264/265/266/267/268/269/270/271/272/273/274/275/276/277/278/279/280/281/282/283/284/285/286/287/288/289/290/291/292/293/294/295/296/297/298/299/300/301/302/303/304/305/306/307/308/309/310/311/312/313/314/315/316/317/318/319/320/321/322/323/324/325/326/327/328/329/330/331/332/333/334/335/336/337/338/339/340/341/342/343/344/345/346/347/348/349/350/351/352/353/354/355/356/357/358/359/360/361/362/363/364/365/366/367/368/369/370/371/372/373/374/375/376/377/378/379/380/381/382/383/384/385/386/387/388/389/390/391/392/393/394/395/396/397/398/399/400/401/402/403/404/405/406/407/408/409/410/411/412/413/414/415/416/417/418/419/420/421/422/423/424/425/426/427/428/429/430/431/432/433/434/435/436/437/438/439/440/441/442/443/444/445/446/447/448/449/450/451/452/453/454/455/456/457/458/459/460/461/462/463/464/465/466/467/468/469/470/471/472/473/474/475/476/477/478/479/480/481/482/483/484/485/486/487/488/489/490/491/492/493/494/495/496/497/498/499/500/501/502/503/504/505/506/507/508/509/510/511/512/513/514/515/516/517/518/519/520/521/522/523/524/525

17-Jan-2023

MESSRS. **THAI MMA CO.,LTD.**

KOBELCO SCREW COMPRESSOR SERVICE REPORT

MODEL: ALE55W-5
SERIAL NO: 3FA01084
MACHINE NO: BM-807-3
OPERATING HOURS: 71150
DATE OF SERVICE: 06-Oct-2022

WORK DETAILS

CLEANED INTERCOOLER

CLEANED AFTERCOOLER

CLEANED OIL COOLER

CHECK SHEET

INSPECTION ITEMS	RESULTS BEFORE COUNTERMEASURE	COUNTERMEASURE
COMPRESSOR PROPER Visual Inspection of 1st Stage Air End Visual Inspection of 2nd Stage Air End Balance Piston Diaphragm Any Sign of Abnormal Noise Any Sign of Abnormal Vibration Air leakage from Shaft Seal Section <input checked="" type="checkbox"/> OUT OF SCOPE	<input type="checkbox"/> GOOD <input type="checkbox"/> DEFECTIVE <input type="checkbox"/> GOOD <input type="checkbox"/> DEFECTIVE <input type="checkbox"/> GOOD <input type="checkbox"/> HARDENED <input type="checkbox"/> NORMAL <input type="checkbox"/> ABNORMAL <input type="checkbox"/> NORMAL <input type="checkbox"/> ABNORMAL <input type="checkbox"/> LITTLE <input type="checkbox"/> EXCESSIVE	<input type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT <input type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT <input type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT
SUCTION FILTER Contamination of Element <input checked="" type="checkbox"/> OUT OF SCOPE	<input type="checkbox"/> LITTLE <input type="checkbox"/> EXCESSIVE	<input type="checkbox"/> CLEANED <input type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT
SUCTION DUCT Contamination Inside Tube Breakage / Cracking of Duct House <input checked="" type="checkbox"/> OUT OF SCOPE	<input type="checkbox"/> LITTLE <input type="checkbox"/> EXCESSIVE <input type="checkbox"/> NORMAL <input type="checkbox"/> CRACK <input type="checkbox"/> HARDENED	<input type="checkbox"/> CLEANED <input type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT
OIL FILTER Foreign matter in Element <input checked="" type="checkbox"/> OUT OF SCOPE	<input type="checkbox"/> LITTLE <input type="checkbox"/> EXCESSIVE	<input type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT
LUBRICANT OIL <input type="checkbox"/> OUT OF SCOPE	<input type="checkbox"/> OK <input checked="" type="checkbox"/> NOT GOOD	<input checked="" type="checkbox"/> REPLACED <input type="checkbox"/> TOP UP <input type="checkbox"/> NEED REPLACEMENT TYPE:DAPHNE TUBINE OIL 68 <input type="checkbox"/> CUSTOMERS OIL
DRAIN SOLENOID VALVE Intercooler Drain Aftercooler Drain <input checked="" type="checkbox"/> OUT OF SCOPE	<input type="checkbox"/> NORMAL <input type="checkbox"/> DEFECTIVE <input type="checkbox"/> NORMAL <input type="checkbox"/> DEFECTIVE	<input type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT <input type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT
DISCHARGE CHECK VALVE Wear in Seat Surface <input checked="" type="checkbox"/> OUT OF SCOPE	<input type="checkbox"/> NORMAL <input type="checkbox"/> LEAK <input type="checkbox"/> WEAR	<input type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT
3-WAY SOLENOID VALVE Operation <input checked="" type="checkbox"/> OUT OF SCOPE	<input type="checkbox"/> NORMAL <input type="checkbox"/> DEFECTIVE	<input type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT
EXHAUST CLEANER Damage/Contamination <input checked="" type="checkbox"/> OUT OF SCOPE	<input type="checkbox"/> LITTLE <input type="checkbox"/> EXCESSIVE	<input type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT
CAPACITY CONTROL VALVE Diaphragm Condition Slider Lock Nut Slider Shaft Operation <input checked="" type="checkbox"/> OUT OF SCOPE	<input type="checkbox"/> NORMAL <input type="checkbox"/> TORN <input type="checkbox"/> HARDENED <input type="checkbox"/> NORMAL <input type="checkbox"/> WEAR <input type="checkbox"/> NORMAL <input type="checkbox"/> WEAR <input type="checkbox"/> NORMAL <input type="checkbox"/> DAMAGED <input type="checkbox"/> NORMAL <input type="checkbox"/> DEFECTIVE	<input type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT <input type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT <input type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT <input type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT <input type="checkbox"/> CHANGED NEW CAPACITY CONTROL VALVE
SHUTTLE VALVE Operation <input checked="" type="checkbox"/> OUT OF SCOPE	<input type="checkbox"/> NORMAL <input type="checkbox"/> DEFECTIVE	<input type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT

CHECK SHEET

INSPECTION ITEMS	RESULTS BEFORE COUNTERMEASURE	COUNTERMEASURE
INTERCOOLER Scale adhering to tube nest Corrosion of Shell Corrosion of Tube Assy (Leakage) Corrosion of Covers Contamination inside the tube Packings <input type="checkbox"/> OUT OF SCOPE	<input type="checkbox"/> LITTLE <input checked="" type="checkbox"/> EXCESSIVE <input checked="" type="checkbox"/> LITTLE <input type="checkbox"/> EXCESSIVE <input checked="" type="checkbox"/> LITTLE <input type="checkbox"/> EXCESSIVE <input checked="" type="checkbox"/> LITTLE <input type="checkbox"/> EXCESSIVE <input type="checkbox"/> LITTLE <input checked="" type="checkbox"/> EXCESSIVE <input type="checkbox"/> NORMAL <input checked="" type="checkbox"/> HARDENED	<input type="checkbox"/> REPLACED NEW SET <input type="checkbox"/> NEED REPLACEMENT FOR NEW SET <input checked="" type="checkbox"/> DISSEMBLED AND CLEANED <input type="checkbox"/> CHEMICAL CIRCULATION <input type="checkbox"/> REPLACED <input checked="" type="checkbox"/> REPAIRED <input type="checkbox"/> NEED REPLACEMENT <input type="checkbox"/> REPLACED <input checked="" type="checkbox"/> REPAIRED <input type="checkbox"/> NEED REPLACEMENT <input type="checkbox"/> REPLACED <input checked="" type="checkbox"/> REPAIRED <input type="checkbox"/> NEED REPLACEMENT <input checked="" type="checkbox"/> DISSEMBLED AND CLEANED <input type="checkbox"/> NEED REPLACEMENT <input checked="" type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT
AFTERCOOLER Scale adhering to tube nest Corrosion of Shell Corrosion of Tube Assy (Leakage) Corrosion of Covers Contamination inside the tube Packings <input type="checkbox"/> OUT OF SCOPE	<input type="checkbox"/> LITTLE <input checked="" type="checkbox"/> EXCESSIVE <input checked="" type="checkbox"/> LITTLE <input type="checkbox"/> EXCESSIVE <input checked="" type="checkbox"/> LITTLE <input type="checkbox"/> EXCESSIVE <input checked="" type="checkbox"/> LITTLE <input type="checkbox"/> EXCESSIVE <input type="checkbox"/> LITTLE <input checked="" type="checkbox"/> EXCESSIVE <input type="checkbox"/> NORMAL <input checked="" type="checkbox"/> HARDENED	<input type="checkbox"/> REPLACED NEW SET <input type="checkbox"/> NEED REPLACEMENT FOR NEW SET <input checked="" type="checkbox"/> DISSEMBLED AND CLEANED <input type="checkbox"/> CHEMICAL CIRCULATION <input type="checkbox"/> REPLACED <input checked="" type="checkbox"/> REPAIRED <input type="checkbox"/> NEED REPLACEMENT <input type="checkbox"/> REPLACED <input checked="" type="checkbox"/> REPAIRED <input type="checkbox"/> NEED REPLACEMENT <input type="checkbox"/> REPLACED <input checked="" type="checkbox"/> REPAIRED <input type="checkbox"/> NEED REPLACEMENT <input checked="" type="checkbox"/> DISSEMBLED AND CLEANED <input type="checkbox"/> NEED REPLACEMENT <input checked="" type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT
OIL COOLER Clogging in tube Contaminatin of tube nest Corrosion of blind cover Packings <input type="checkbox"/> OUT OF SCOPE	<input checked="" type="checkbox"/> LITTLE <input type="checkbox"/> EXCESSIVE <input checked="" type="checkbox"/> LITTLE <input type="checkbox"/> EXCESSIVE <input checked="" type="checkbox"/> LITTLE <input type="checkbox"/> EXCESSIVE <input type="checkbox"/> NORMAL <input checked="" type="checkbox"/> HARDENED	<input type="checkbox"/> REPLACED NEW SET <input type="checkbox"/> NEED REPLACEMENT FOR NEW SET <input type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT <input type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT <input type="checkbox"/> REPLACED <input checked="" type="checkbox"/> REPAIRED <input type="checkbox"/> NEED REPLACEMENT <input checked="" type="checkbox"/> REPLACED <input type="checkbox"/> REUSED
SENSORS 1st Stage dis.pressure sensor 2nd Stage dis.pressure sensor Oil pressure sensor 1st Stage temp sensor 2nd Stage temp sensor Oil temp sensor <input checked="" type="checkbox"/> OUT OF SCOPE	<input type="checkbox"/> NORMAL <input type="checkbox"/> ERROR ----- MPA <input type="checkbox"/> NORMAL <input type="checkbox"/> ERROR ----- MPA <input type="checkbox"/> NORMAL <input type="checkbox"/> ERROR ----- MPA <input type="checkbox"/> NORMAL <input type="checkbox"/> ERROR ----- °C <input type="checkbox"/> NORMAL <input type="checkbox"/> ERROR ----- °C <input type="checkbox"/> NORMAL <input type="checkbox"/> ERROR ----- °C	<input type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT <input type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT <input type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT <input type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT <input type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT <input type="checkbox"/> REPLACED <input type="checkbox"/> NEED REPLACEMENT
MOTOR Stator Bearings <input checked="" type="checkbox"/> OUT OF SCOPE	<input type="checkbox"/> NORMAL <input type="checkbox"/> LOW RESISTANCE <input type="checkbox"/> BURNT <input type="checkbox"/> NORMAL <input type="checkbox"/> DEFECT	<input type="checkbox"/> REWIND <input type="checkbox"/> CLEANED <input type="checkbox"/> NEED CLEANING <input type="checkbox"/> CHANGED BEARING <input type="checkbox"/> NEED BEARING CHANGE
FAN MOTOR Stator Bearings <input checked="" type="checkbox"/> OUT OF SCOPE	<input type="checkbox"/> NORMAL <input type="checkbox"/> LOW RESISTANCE <input type="checkbox"/> BURNT <input type="checkbox"/> NORMAL <input type="checkbox"/> DEFECT	<input type="checkbox"/> REPLACED NEW SET <input type="checkbox"/> NEED REPLACEMENT FOR NEW SET <input type="checkbox"/> REWIND <input type="checkbox"/> CLEANED <input type="checkbox"/> NEED CLEANING <input type="checkbox"/> CHANGED BEARING <input type="checkbox"/> NEED BEARING CHANGE

MODEL ALE55W-5 SERIAL 3FA01084



AFTERCOOLER BEFORE CLEANING

MODEL ALE55W-5 SERIAL 3FA01084



AFTERCOOLER AFTER CLEANING

MODEL ALE55W-5 SERIAL 3FA01084



AFTERCOOLER BEFORE CLEANING

MODEL ALE55W-5 SERIAL 3FA01084



AFTERCOOLER AFTER CLEANING

MODEL ALE55W-5 SERIAL 3FA01084



AFTERCOOLER BEFORE CLEANING

MODEL ALE55W-5 SERIAL 3FA01084



AFTERCOOLER AFTER CLEANING

MODEL ALE55W-5 SERIAL 3FA01084



OIL COOLER BEFORE CLEANING

MODEL ALE55W-5 SERIAL 3FA01084



OIL COOLER AFTER CLEANING

MODEL ALE55W-5 SERIAL 3FA01084



OIL COOLER BEFORE CLEANING

MODEL ALE55W-5 SERIAL 3FA01084



OIL COOLER AFTER CLEANING

MODEL ALE55W-5 SERIAL 3FA01084



INTERCOOLER BEFORE CLEANING

MODEL ALE55W-5 SERIAL 3FA01084



INTERCOOLER AFTER CLEANING

MODEL ALE55W-5 SERIAL 3FA01084



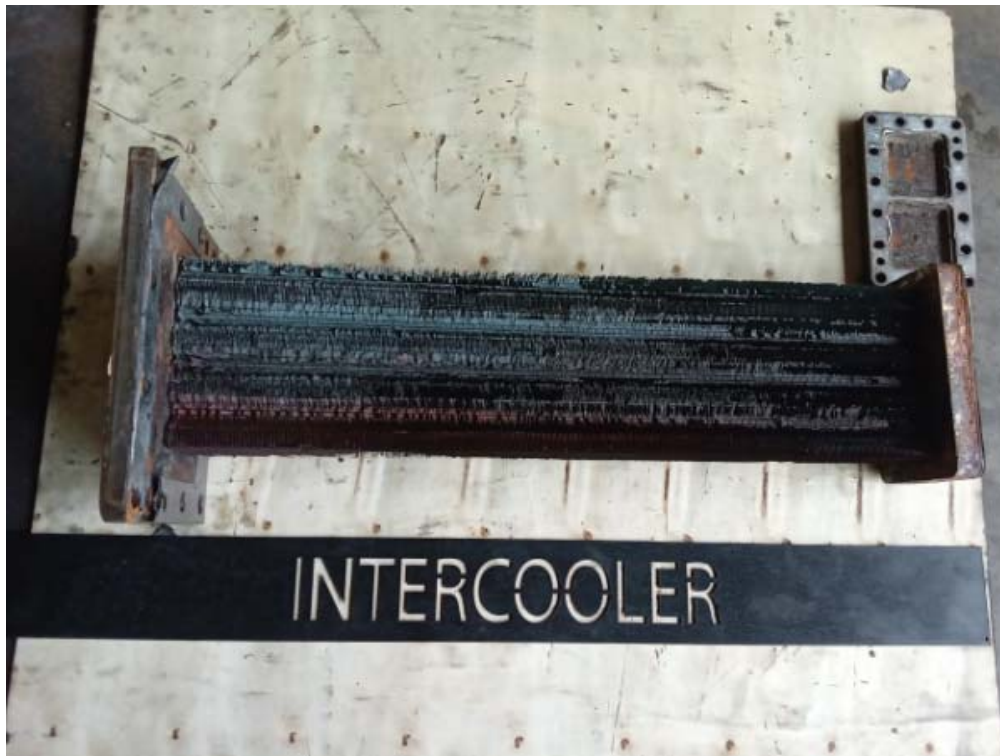
INTERCOOLER BEFORE CLEANING

MODEL ALE55W-5 SERIAL 3FA01084



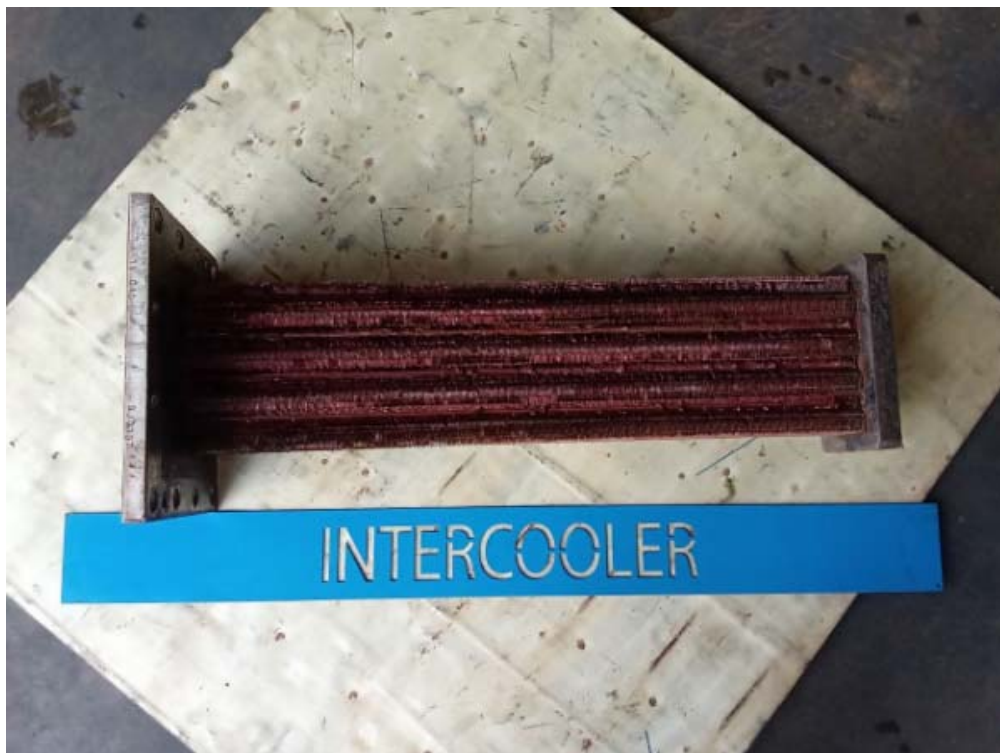
INTERCOOLER AFTER CLEANING

MODEL ALE55W-5 SERIAL 3FA01084



INTERCOOLER BEFORE CLEANING

MODEL ALE55W-5 SERIAL 3FA01084



INTERCOOLER AFTER CLEANING

MODEL ALE55W-5 SERIAL 3FA01084



MODEL ALE55W-5 SERIAL 3FA01084



NEW PARTS

MODEL ALE55W-5 SERIAL 3FA01084



NEW PARTS

MODEL ALE55W-5 SERIAL 3FA01084



MODEL ALE55W-5 SERIAL 3FA01084



MODEL ALE55W-5 SERIAL 3FA01084



WARRANTY CONDITIONS FOR PARTS AND SERVICE

1.WARRANTY PERIOD: AS IN BELOW TABLE

Parts and Job Details	Models	Warranty Period
Filters and elements and other mechanical parts	All models	3000 hours or 12 months after replacement, whichever comes first
Electrical parts	All models	12 months after replacement
Air end Bearings and coolers	HM, KST, AM and older models	6 months after replacement
	Models newer than above	12 months after replacement
Rewinding Motor	HM, KST, AM and older models	6 months after job completed
	Other Models (Less than 55 kw)	6 months after job completed
	Other Models (55 kw and above)	12 months after job completed
Overhaul Motor or Change Motor Bearings	HM, KST, AM and older models	3 months after job completed
	Other Models (Less than 55 kw)	3 months after job completed
	Other Models (55 kw and above)	6 months after job completed
Lubricant	All Models	No warranty, depends on environment and change of filters
Cooler cleaning	All Models	No warranty, depends on environment and water quality

2.CONTENTS OF WARRANTY

In case a trouble should occur during the warranty period and when it is determined that the trouble is caused clearly by our defective design, manufacture and or execution of work, We will repair or replace the parts free of charge without delay.

3.EXCEPTIONS TO THE APPLICATION OF WARRANTY

Even during the warranty period of this machine, we refuse warranty in the following cases.

- Trouble caused by the natural disasters or accidents beyond human control.
- Trouble caused by a defective material selected or supplied by customer, or caused by a defect resulted from the design designated by customer.
- Trouble caused by a repair or modification conducted by customer without notifying us of the fact.
- Trouble caused by not adhering to the operating procedures, periodical inspections, maintenance and storage, etc. described in the specification sheets and instruction manuals issued by us.
- Trouble caused by not greasing at proper intervals as recommended in instruction manual. Grease-up of Motor is responsibility of customer.
- Trouble caused by defective foundation, building and/or equipment other than this machine.
- Reduction of production due to a trouble of this machine, We do not honour compensation for production shutdown and other loss casualties. Warranty is only limited to machine serviced.
- Warranty will be void if customer uses non-genuine parts or oil not recommended by us (Supplier or Contractor).

AMÁTA NAKORN : TEL. 092-224-6330

Print date 05/10/22

DATE : 6/10/99		MODEL : ALE55W-5		TEST RUN: 01/01/08	
THAI MMA CO., LTD.				S/N: 3FA01084	
RY-MATAPHUT		MC NO.: BM-807-3		GADUS G. (1200)	
G58721 #67240#03-10-22#FOOWADOL#A		Room Temp : 38 °C Cooling Water Temp : - / - °C (<35 / <45 °C)			
		Cooling Water Pressure : - / - kgf/cm ² G (in/out) [1.5~5.0 kgf/cm ² G]			
		Air Tank : - M ³ , Pressure : - kgf/cm ² G <input type="checkbox"/> Link/Gr.Controller			
1. <input type="checkbox"/> Commissioning 2. <input type="checkbox"/> Maintenance Contract 3. <input type="checkbox"/> Routine check 4. <input checked="" type="checkbox"/> Cooler Cleaning 5. <input type="checkbox"/> Parts Change : (Hrs)					
6. <input type="checkbox"/> Air End Change 7. <input type="checkbox"/> Top up (Type) 8. <input type="checkbox"/> Change, Replace Oil (Type TBS)					
9. <input type="checkbox"/> Claim 10. MOTOR : Grease up (Type) <input type="checkbox"/> Bearing Change <input type="checkbox"/> Vanish <input type="checkbox"/> Rewinding 11. Others					
12. Load cycle : 725 sec 13. 1st-stage Dis. Pressure : Unload -0.24 mmHg(AL), bar(ALE,FE), Load 1.88 kgf/cm ² G					
14. 2nd-stage Dis. Pressure : 6.4 / 6.4 / 6.4 kgf/cm ² G (Load / Unload / Normal)					
15. 2nd-stage Suction Temp. 31 °C [ALE,FE : below 80 °C/AL: ambient + 15 ~ 20 °C (max 60 °C)]					
16. 1st-stage Dis. Temp. 145 °C 17. 2nd-stage Dis. Temp. 135 °C					
18. Oil Pressure : 2.15 kgf/cm ² G [ALE<45Kw, FE : 0.6~1.8/ALE>45Kw, AL : 2~2.5] 19. Oil Temp. 34 °C [ALE,FE : below 75/AL : W - 65, A - 75]					
20. Loaded Hour : 58623 21. Load counter : 109960 22. Total Hour : 71150					
23. Voltage: R-S 397 / 398 V, R-T 397 / 398 V, S-T 397 / 398 V (load : unload)					
24. Ampere : R 99 / 11 A, S 99 / 11 A, T 98 / 10 A (load : unload)					
25. CHECK FOR CORRECT FUNCTIONS			28. MAINTENANCE		
Pressure reducing valve 2.5 kgf/cm ² G for ALE<45Kw(2.5~3.0)			CHECK SERVICE REPLACE		
Air filter sensor <input checked="" type="checkbox"/> OK <input type="checkbox"/> NOT GOOD			gauges, instruments, lights <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
Battery <input checked="" type="checkbox"/> OK <input type="checkbox"/> NOT GOOD			capacity control valve <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
*** OCR <input checked="" type="checkbox"/> OK <input type="checkbox"/> NOT GOOD			1st & 2nd stage air end <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
*** Star delta timer 30 sec			3,4-way solenoid valve (C.C.V.) <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
**** Safety valve operates at 9.5 kgf/cm ² G [spec x 1.1]			fan motor (noise) <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
**** Discharge temp. relay trips at 1st 105 / 2nd 105 °C [spec]			by-pass silencer <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
26. DRYER			oil pump <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
Model : 1 <input type="checkbox"/> <input type="checkbox"/>			main motor (noise) <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
S/N : Dew point : °C			Oil <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
Inlet Pressure : kgf/cm ² G			oil cartridge <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
27. FILTER			*drain trap (Solenoid Valve) <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
CHECK SERVICE REPLACE			suction filter <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
1) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			Intercooler <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
2) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			aftercooler <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
3) <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			oil cooler <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
+ Motor Insulation U-E V-E W-E			breather element/exhaust cleaner <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
REMARKS : AIR COMPRESSOR <input type="checkbox"/> normal <input type="checkbox"/> abnormal			control air filter (AL Only) <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
* คอมพิวเตอร์ COOLDR			shuttle valve <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
* คอมพิวเตอร์ 100000			check for leak <input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
* คอมพิวเตอร์ PLAX OIL และ ฟังก์ชั่น			sensor*** <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		
* 672401084			SERVICE BY		
M/C STOPSANNUAL PARTS CHANGE + OVERHAUL MOTOR			PATOMIONG SOMPA SONG		
OTHER INFORMATION :			DACHANAT KAPONGCHAI		
			ACCEPTED BY		
			[Signature]		