

เอกสารแนบที่ 2

เอกสารด้านการตรวจสอบบำรุงรักษาอุปกรณ์ และเครื่องจักร



Emergency Diesel Generator Record

GPP

TH-PHU-115-52-EG-5101

Emergency diesel generator

M. JAN 11 2024

Section	Description	Normal	Before	Running	Remark
Engine	Air filter	Clean	OK	OK	OK/AB
	Fuel Level > 80%	350	240	270	Liters
	Belt condition	Normal	OK	OK	OK/AB
	Coolant Level > 90%	Full	100%	100%	%
	Lube oil Level > 85%	Top mark	100%	100%	%
	Coolant temp.	25-85	78	70	°C
	Lube Oil press.	50-85	0.1	2.3	PSIG
	Engine speed	1500	0	1501	RPM
	Battery Voltage	24-30	26.5	23.0	VDC
	Governor duty	25	0	25-26	%
Alternator	Active time delay	0	0	0	Sec.
	Voltage	L12 400	0	402	V.
		L23 400	0	401	V.
		L31 400	0	402	V.
	Voltage+ N	L1N 230	0	232	V.
		L2N 230	0	232	V.
		L3N 230	0	232	V.
	AMP.	L1 0	0	0	Amp.
		L2 0	0	0	Amp.
		L3 0	0	0	Amp.
More + History	Power	L1 0	0	0	Kw.
		L2 0	0	0	Kw.
		L3 0	0	0	Kw.
	Frequency	50	0	50	Hz.
	Total power	-	0	50.0	Kw.
	Number of starts	>0	233	772	times
	Engine run hours	>0	252.2	302.4	Hours
	Control Hours	>0	1405.06	1405.07	Hours
	Kw. Hours	>0	11363.4	11363.4	MW Hours
	Batt. Performance test (1500CCA 12V) unit A		13.1 VDC / 83	CCA / 55	VDC / % / CCA
Battery (Use Meter)	Batt. Performance test (1500CCA 12V) unit B		13.1 VDC / 80	CCA / 56	VDC / % / CCA
	Batt. Performance test (1500CCA 24V) TOTAL		26.9 VDC / 845	CCA / 56	VDC / % / CCA
	Crank voltage		18.80		VDC
	Charger current		26.27	0.5	VDC / Amp
	Test run		30		Minute
	Synchronize breaker status	ON	ON	OFF	ON / OFF
	Radiator cap	Fix	Fix	Fix	Fix / loose
	Panel status	Auto	Auto	MAN	Auto / Man
	Completed				
	Remark				

Recorded by

Date: 01/11/2024



Emergency Diesel Generator Record

SPH05

TH-PHU-113-52-EG-3101

Emergency diesel generator

Wellpad A

01/11/2024

Section	Description	Normal	Before	Running	Remark
Engine	Air filter	Clean	OK	OK	OK/AB
	Fuel Level > 80%	350	240	270	Liters
	Belt condition	Normal	OK	OK	OK/AB
	Coolant Level > 90%	Full	100	100	%
	Lube oil Level > 85%	Top mark	100	100	%
	Coolant temp.	25-85	23	85	°C
	Lube Oil press.	50-85		80 / 57	PSIG
	Engine speed	1500		1499-1501	RPM
	Battery Voltage	13-15	13.0	13.0-14.1	VDC
	Governor duty	25		26-27	%
Alternator	Active time delay	0		0	Sec.
	Voltage	L12 400		399	V.
		L23 400		400-401	V.
		L31 400		399-400	V.
	Voltage+ N	L1N 230		229	V.
		L2N 230		230	V.
		L3N 230		232	V.
	AMP.	L1 0		0	Amp.
		L2 0		0	Amp.
		L3 0		0	Amp.
More + History	Power	L1 0		0	Kw.
		L2 0		0	Kw.
		L3 0		0	Kw.
	Frequency	50		49.8-50.0	Hz.
	Total power	-		0	Kw.
	Number of starts	>0	1359	1360	times
	Engine run hours	>0	3026.6	3026.9	Hours
	Control Hours	>0	140386	140386	Hours
	Kw. Hours	>0	2240.1	2240.1	MW Hours
	Batt. Performance test (900CCA 12V)		86.7	CCA / 91	CCA / %
Battery (Use Meter)	Batt. Stand by		13.2		VDC
	Crank voltage		10.2		VDC
	Charger current		14.0	0.5	VDC / Amp
	Test run		30		Minute
	Synchronize breaker status	ON	ON / OFF	ON / OFF	ON / OFF
	Radiator cap	Fix	OK Fix	OK Fix	Fix / loose
	Panel status	AUTO	AUTO / MAN	AUTO / MAN	Auto / Man
	Completed				
	Remark				

1433 Hr. 13.8342.5 Emergency stop
1434 Hr. 13.7681.5 Remote stop
1447 Hr. 13.7681.4 Low AC Voltage

Recorded by

Date: 08/01/2024

WATZ Test 860 CCA 81%



Emergency Diesel Generator Record

SPH03

TH-PHU-111-52-EG-1101

Emergency diesel generator

Wellpad B

Section	Description	Normal	Before	Running	Remark
Engine	Air filter	Clean	OK	OK	OK/AB
	Fuel Level > 80%	350	240	270	Liters
	Belt condition	Normal	OK	OK	OK/AB
	Coolant Level > 90%	Full	100	100	%
	Lube oil Level > 85%	Top mark	100	100	%
	Coolant temp.	25-85	26	85 / 79	°C
	Lube Oil press.	50-85	0	80 / 61	PSIG
	Engine speed	1500	0	1499-1501	RPM
	Battery Voltage	13-15	13.25	14.8	VDC
	Governor duty	25	0	0	%
Alternator	Active time delay	0	0	0	Sec.
	Voltage	L12 400		394	V.
		L23 400		397	V.
		L31 400		390	V.
	Voltage+ N	L1N 230		224	V.
		L2N 230		231	V.
		L3N 230		227	V.
	AMP.	L1 0		0	Amp.
		L2 0		0	Amp.
		L3 0		0	Amp.
More + History	Power	L1 0		0	Kw.
		L2 0		0	Kw.
		L3 0		0	Kw.
	Frequency	50	50.0	50.0-50.1	Hz.
	Total power	-	0	0	Kw.
	Number of starts	>0	1500	1501	times
	Engine run hours	>0	2322.4	2322.7	Hours
	Control Hours	>0	14743.7	14743.7	Hours
	Kw. Hours	>0	2086.8	2086.8	MW Hours
	Batt. Performance test (900CCA 12V)		91.0	CCA / 91	CCA / %
Battery (Use Meter)	Batt. Stand by		13.25		VDC
	Crank voltage		10.98		VDC
	Charger current		14.0	0.5	VDC / Amp
	Test run		30		Minute
	Synchronize breaker status	ON	ON	OFF	ON / OFF
	Radiator cap	Fix	Fix	Fix	Fix / loose
	Panel status	AUTO	Auto	Auto	Auto / Man
	Completed				
	Remark				

Recorded by

Date: 09/01/2024



Emergency Diesel Generator Record

SPH04

TH-PHU-112-52-EG-2101

Emergency diesel generator

Wellpad C

01/11/2024

Section	Description	Normal	Before	Running	Remark
Engine	Air filter	Clean	OK	OK	OK/AB
	Fuel Level > 80%	350	270	270	Liters
	Belt condition	Normal	OK	OK	OK/AB
	Coolant Level > 90%	Full	100%	100%	%
	Lube oil Level > 85%	Top mark	100%	100%	%
	Coolant temp.	25-85	26	79	°C
	Lube Oil press.	50-85	0	26 / 56	PSIG
	Engine speed	1500	0	1500	RPM
	Battery Voltage	13-15	13.2	13.1	VDC
	Governor duty	25	0	23	%
Alternator	Active time delay	0	0	0	Sec.
	Voltage	L12 400	0	400	V.
		L23 400	0	401	V.
		L31 400	0	401	V.
	Voltage+ N	L1N 230	0	231	V.
		L2N 230	0	231	V.
		L3N 230	0	232	V.
	AMP.	L1 0	0	0	Amp.
		L2 0	0	0	Amp.
		L3 0	0	0	Amp.
More + History	Power	L1 0	0	0	Kw.
		L2 0	0	0	Kw.
		L3 0	0	0	Kw.
	Frequency	50	0	49.9-50.0	Hz.
	Total power	-	0	0	Kw.
	Number of starts	>0	1270	1271	times
	Engine run hours	>0	2524.2	2527.7	Hours
	Control Hours	>0	13858.1	13858.2	Hours
	Kw. Hours	>0	1401.2	1401.2	MW Hours
	Batt. Performance test (900CCA 12V)		76.4	CCA / 80	CCA / %
Battery (Use Meter)	Batt. Stand by		13.2		VDC
	Crank voltage		10.3		VDC
	Charger current		14	0.6	VDC / Amp
	Test run		30		Minute
	Synchronize breaker status	ON	ON	OFF	ON / OFF
	Radiator cap	Fix	OK Fix	OK Fix	Fix / loose
	Panel status	AUTO	AUTO	PAN	Auto / Man
	Completed				
	Remark				

Recorded by

Date: 10/1/2024

SPH04

Emergency diesel generator

Wellpad C

Battery Replace Cell - Replace half pad C

Recorded by

Date 12/02/24

Remark

2. Pooled t-test is used

2543 \rightarrow 141212 ?

1433 → 129660.2 Aux Comp Cost

1107 - 131074: 7 EMERGENCY STOP

Recorded by

SPH05

Emergency diesel generator

Wellpad A

Panel status	AUTO	AUTO/MAN	AUTO
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Recorded by:

Date 5/03/22

SPH03

Emergency diesel generator

Wellpad B
May 2024

Remar

History Current Code; 2542 @tr 771130.6, 1448 @tr 89322.5, 1425 @tr 20093.9
193 @tr 89322.1, 415 @tr 89322.1, 1433 @tr 145328.2,
1434 @tr 7856.5, 141 @tr 10242.1, 1434 @tr 109235.0
141 @tr 111142.2, 1413 @tr 111142.1
121 @tr 142954.6,
1428 @tr 142954.1-9.

Recorded by [REDACTED]
Date 05/09/2004

Recorded by

Date: 05/09/2024

Section	Description	Normal	Before	Running	Remark
Engine	Air filter	Clean	Clean	OK	OK/AB
	Fuel Level > 80%	350	240	270	Liters
	Oil condition	Normal	Normal	OK	OK/AB
	Coolant Level > 90%	Full	15	-	%
	Lube Oil Level > 85%	Top mark	100	-	%
	Coolant temp.	25-35	27	82 / 81 - 85	°C
	Lube Oil press.	50-65	0	17.9 / 16 - 37	PSIG
	Engine speed	1500	0	1498 - 1504	RPM
	Battery Voltage	13-15	13.2	12.5	VDC
	Governor duty	26	0	30 - 32 %	%
Alternator	Active time delay	0	0	0	Sec
	Voltage	L12 L23 L31 L10	400 400 400 230	399 - 406 460 - 401 400 - 401 230 - 231	V.
	Voltage + N	L12 L23 L31 L10	400 400 230 230	400 - 401 400 - 401 230 - 231 230 - 231	V.
	AMP.	L1 L2 L3 L10	0 0 0 0	0 0 0 0	AMP
	Power	L1 L2 L3 L10	0 0 0 0	0 0 0 0	Kw
	Frequency	50	0	50.0	KHz
	Total power	-	0	0	KW
	Minutes of starts	>6	12.95	12.96	Times
	Engine run hours	>6	2530.0	2530.5	Hours
	Control hours	>6	139224	139225	Hours
Battery (Use Meter)	Kw. Hours	>6	1401.2	1401.2	MW Hours
	Batt. Performance test (900CCA 12V)		1008	CCA / 67 %	CCA / %
	Batt. Stand by		13.3		VDC
	Crank voltage		12.20		VDC
Substation	Charger current		14.0	Vdc / 0.7. Amp	VDC / Amp
Test run				30	Minute
Completed	Synchronize breaker status	ON	ON	ON	ON / OFF
	Radiator cap	Fit	Fix	Fix	Fix / loose
	Panel status	AUTO	Auto	Auto	Auto / Man

Remark History current code: 2342 @ 63815.3, 1435 @ 137833.9
14.6 @H 48422.4, 151 @H 68522.6, 415 @H 79384.5, 141 @H 130782.3
14.3 @H 79339.6, 834 @H 7925.4, 059 @H 68822.9, 1454 @H
137816.3, 1443 @H 139261.7, 492 @H 63615.3.

Recorded by _____
Date 09/03/2024

Section	Discription	Normal	Future	Running	Remark
Engine	Air filter	Clean	OK	OK	OK/AB
	Fuel Level > 80%	1000	1000	1000	Liters
	Fuel condition	Normal	OK	OK	OK/AB
	Coastant Level > 90%	Ful	100	100	%
	Lube oil Level > 85%	Top mark	100	100	%
	Coastant temp.	40-45	35-40	70	°C
	Lube Oil press.	50-85	0	75 / 120 N	PSIG
	Engine speed	1500	0	1494-1501	RPM
	Battery voltage	24-30	26.3	27.7	VDC.
	Governor duty	25	0	24-25	%
Alternator	Active time delay	0	0		Sec.
	Voltage	L12	400	401	V.
		L23	400	401	V.
		L31	400	400-401	V.
		L1N	230	231	V.
	Voltage+ N	L2N	230	231	V.
		L3N	230	232	V.
		L1	0	0	Amp.
		L2	0	0	Amp.
	Power	L3	0	0	Kw.
		L1	0	0	Kw.
L2		0	0	Kw.	
L3		0	0	Kw.	
Frequency	50	0	50.0	Hz	
Total power	-	0	0	Kw.	
More + History	Number of starts	>0	779	779	times
	Engine run hours	>0	391.8	397.8	Hours
	Control Hours	>0	1426.4	1426.4	Hours
	Kw. Hours	>0	11363.5	11363.5	MW Hours
Battery (Use Meter)	Batt. Performance test (1500CCA 12V) unit A		13.2 VDC / 945	CCA / 63 %	VDC / % / CCA
	Batt. Performance test (1500CCA 12V) unit B		13.2 VDC / 954	CCA / 63 %	VDC / % / CCA
	Batt. Performance test (1500CCA 24V) TOTAL		26.9 VDC / 931	CCA / 62 %	VDC / % / CCA
	Crank voltage			19.00	VDC
Substation	Charger current		26.5	0.5	VDC / Amp
Completed	Synchronize breaker status	ON		ON	ON / Off
	Radiation cap	Fix		Fix	Fix / loose
	Panel status	Avb		Avb	Avb / Man

Remark	23-07-78	24-07-78	25-07-78	26-07-78	27-07-78
2542	Mr. 441368.3	Alt count	1433	Mr. 134154.7	Emergency stop
234	Mr. 134154.2	Over-trap	1434	Mr. 137594.5	Fail to crank
1391	Mr. 105954.9	Alt bearing temp			

Date: 11-17-2017

Section	Description	Normal	Before	Running	Remark
Engine	Air filter	Clean	Clean	OK	OK/AB
	Fuel Level > 80%	350	245	245	Liters
	Seat condition	Normal	normal	OK.	OK/AB
	Coolest Level > 90%	Ful	100	=	%
	Lube oil Level > 85%	Top mark	100		%
	Coolest temp.	25-45	33.1	83/78/80	°C
	Lube Oil press.	50-45	0	78/59	PSIG
	Engine speed	1600	0	178/150	r/min
	Battery Voltage	13.5	13.0	13.9.	VDC
	Governor duty	25	0	27-28	%
Alternator	Active time delay	40	0	0	Sec
	Voltage	L12	0	398-399	V
		L21	0	400-401	V
		L31	0	399-400	V
	Voltage+ N	L1N	0	229-230	V
		L2N	0	230-231	V
		L3N	0	232	V
	AMP.	L12	0	0	Amp.
		L22	0	0	Amp.
		L32	0	0	Amp.
More + History	Power	L1	0	0	Kw
		L2	0	0	Kw
		L3	0	0	Kw
	Frequency	50	0	50.0-56.1	Hz
	Total power	<0	1372	1373	Kw
Battery (Use Meter)	Number of starts	>0	3103.8	3104.3	times
	Engine run hours	>0	14628	14629	Hours
	Control Hours	>0	2240-1	2240.	Hours
	Kw. Hours	>0	828	828	MW Hours
	Batt. Performance test (900CCA 12V)		CCA / 87 %		CCA / %
Substation	Batt Stand by		13.2		VDC
	Crank voltage		10.80		VDC
	Charger current		4.0 VDC	0.5 AMP	VDC / Amp
Test run			30		Minute
Completed	Synchronize breaker status	ON	ON / OFF	ON / OFF	ON / OFF
	Radiator cap	Flt	Flt	Flt	Flt / loose
	Panel status	Auto	AUTO / MAN	AUTO / MAN	Auto / Man

Control panel lamp test

Current Code: 234 0125575, 1435-113025.3, 1440H-137414
1430H-81302.0, 14450H-81302.1, 14330H-1283425.
1440H-824725.4, 1440H-105126.4
14420H-105437.9, 14470H-137681.4
14340H-137861.5

Recorded by

Date: 03/07/2024

Date: 03/07/2024

NA/E 102 MW / 130 KVA				April 1, 2023		
Section	Discription	Normal	Before	Running	Remark	
Engine	Air filter	Clean	Clean	OK	OKAB	
	Fuel Level > 80%	35%	40	-	Liters	
	Belt condition	Normal	Normal	OK	OKAB	
	Coolant Level > 90%	Full	75	-	%	
	lube oil Level > 85%	Top mark	100	-	%	
	Coolant temp.	25-45	31	85 / 80 / 82	°C	
	Lube Oil press.	50-60	0	78 / 120	PSIG	
	Engine speed	1500	0	1428 - 1500	RPM	
	Battery Voltage	13-15	13.4	14.2	VDC	
	Governor duty	25	0	35	%	
	Active time delay	0	0	0	Sec.	
	Alternator	Voltage	L12	400	0	343 - 344
L2			400	0	343 - 347	V.
L3			400	0	342 - 341	V.
L1N			230	0	223 - 224	V.
Voltage + N		L2N	230	0	22	V.
		L3N	230	0	227 = 228	V.
		L1	0	0	0	Amp.
		L2	0	0	0	Amp.
Power		L1	0	0	0	Kw.
		L2	0	0	0	Kw.
		L3	0	0	0	Kw.
		L2	0	0	0	Kw.
Frequency	50	0	49.9 - 50.0	Hz.		
Total power	-	0	-	kW.		
More + Histor	Number of starts	>6	1509	1510	times	
	Engine run hours	>6	8830.5	8830	Hours	
	Control hours	>6	14738.3	14738.4	Hours	
	Kw. Hours	>6	2086.2	2086.2	MW / hours	
Battery	Batt. Performance test (95CCA 12V)		916	CCA / 98 %	CCA / %	
	Batt. Stand by			10.2	VDC	
Substation	Crank voltage			10.20	VDC	
	Charger current			Vdc!	Amp	
rest run				20	Minute	
	Synchronize breaker status	ON	ON	ON	ON / OFF	
Completed	Radiator cap	Fix	Fix	Fix	Fix / loose	
	Panel status	AUTO	AUTO	AUTO	Auto / Man	

Remark: Control panel lamp test OK

Day Current Code: 5542 chr 146630.6, 1498 chr 58822.0,
1438 chr 12083.7, 145 chr 58822.1, 415 chr 5832.1, 1433 chr 14582.2
224 chr 71862.6, 14 chr 12083.7, 1524 chr 189215.2, 241 chr 11143.2
1438 chr 11142.1, 74 chr 144754.6
1438 chr 144734.7

Date: 3/10/94

Date: 3/10/24



Emergency Diesel Generator Record

SPH04

TH-PHU-112-52-EG-2101

Emergency diesel generator

Wellpad C

RATE 108 kw / 136 KVA

APR 11 2024

Section	Description	Normal	Before	Running	Remark
Engine	Air filter	Clean	OK	OK	OK/AB
	Fuel Level > 80%	350	260	260	Liters
	Belt condition	Normal	OK	OK	OK/AB
	Coolant Level > 90%	Full	OK	OK	%
	Lube oil Level > 85%	Top mark	100	100	%
	Coolant temp.	25-85	36	89 / 82 / 86	°C
	Lube Oil press.	50-85	0	77 / 56	PSIG
	Engine speed	1500	0	1477-1501	RPM
	Battery Voltage	13-16	12.4	12.5	VDC
	Governor duty	25	0	30-31	%
Alternator	Active time delay	0	0	0	Sec.
	Voltage	L12 400	0	399-400	V.
		L23 400	0	400-401	V.
		L31 400	0	400-401	V.
	Voltage+ N	L1N 230	0	230-231	V.
		L2N 230	0	230-231	V.
		L3N 230	0	231-232	V.
	AMP.	L1 0	0	0	Amp.
		L2 0	0	0	Amp.
		L3 0	0	0	Amp.
More + History	Power	L1 0	0	0	Kw.
		L2 0	0	0	Kw.
		L3 0	0	0	Kw.
	Frequency	50	0	49.8-50.1	Hz.
	Total power	-	0	0	Kw.
	Number of starts	>0	1280	1281	times
	Engine run hours	>0	0 549.0	0 549.5	Hours
	Control Hours	>0	140340	140341	Hours
	Kw. Hours	>0	14013	14013	MW Hours
	Batt. Performance test (900CCA 12V)	-	787	65	CCA / %
Battery (Use Meter)	Batt. Stand by	-	13.1	13.0	VDC
	Crank voltage	-	12.0	12.0	VDC
	Charger current	-	14.0	0.7 / 1.5	VDC / Amp
	Test run	-	30	30	Minute
	Synchronize breaker status	ON	ON	ON	ON / OFF
	Radiator cap	Fix	Fix	Fix	Fix / loose
	Panel status	AUTO	Auto	Auto	Auto / Man
	Completed	-	ON	ON	ON / OFF
		-	Fix	Fix	Fix / loose
		-	AUTO	Auto	Auto / Man

Remark: Control panel lamp test OK.

History Current Code: 5542 04r 63615.2, 1435 04r 137437.9,
146 04r 63522.6, 151 04r 63582.6, 415 04r 43087.5,
141 04r 130322.2, 143 04r 79588.6, 234 04r 79267.4

359 04r 68582.9, 1434 04r 135216.3.

1443 04r 139269.7, 1442 04r 63615.2.

Recorded by: [Signature]
Date: 30/03/2024



Emergency Diesel Generator Record

GPP

TH-PHU-115-52-EG-5101

Emergency diesel generator

MAY 1 2024

Section	Description	Normal	Before	Running	Remark
Engine	Air filter	Clean	OK	OK	OK/AB
	Fuel Level > 80%	1000	450	450	Liters
	Belt condition	Normal	OK	OK	OK/AB
	Coolant Level > 90%	Full	OK	OK	%
	Lube oil Level > 85%	Top mark	100 / Top	100 / Top	%
	Coolant temp.	25-85	36	72 /	°C
	Lube Oil press.	50-85	0	79 /	PSIG
	Engine speed	1500	0	1500-1501	RPM
	Battery Voltage	24-30	24.5	27.3	VDC
	Governor duty	25	0	26	%
Alternator	Active time delay	0	0	0	Sec.
	Voltage	L12 400	0	401	V.
		L23 400	0	402	V.
		L31 400	0	403	V.
	Voltage+ N	L1N 230	0	232	V.
		L2N 230	0	232	V.
		L3N 230	0	232	V.
	AMP.	L1 0	0	0	Amp.
		L2 0	0	0	Amp.
		L3 0	0	0	Amp.
More + History	Power	L1 0	0	0	Kw.
		L2 0	0	0	Kw.
		L3 0	0	0	Kw.
	Frequency	50	0	50.0	Hz.
	Total power	-	0	0	Kw.
	Number of starts	>0	782	783	times
	Engine run hours	>0	14394.3	14394.4	Hours
	Control Hours	>0	14394.4	14394.4	Hours
	Kw. Hours	>0	14363.8	14363.8	MW Hours
	Batt. Performance test (1500CCA 12V) unit A	-	13.2	94.2	CCA / %
Battery (Use Meter)	Batt. Performance test (1500CCA 12V) unit B	-	13.2	94.3	CCA / %
	Batt. Performance test (1500CCA 12V) TOTAL	-	16.7	93.1	CCA / %
	Crank voltage	-	20.0	20.0	VDC
	Charger current	-	27.0	0.5	VDC / Amp
	Test run	-	30	30	Minute
	Synchronize breaker status	ON	ON	ON	ON / OFF
	Radiator cap	Fix	Fix	Fix	Fix / loose
	Panel status	AUTO	Auto	Auto	Auto / Man
	Completed	-	ON	ON	ON / OFF
		-	Fix	Fix	Fix / loose

Remark: Alarm log 1 for alarm test 141346.3
2 Emergency stop 141346.3
3 Overspeed 141346.3

Recorded by: [Signature]
Date: 01/04/2024



Emergency Diesel Generator Record

SPH05

TH-PHU-113-52-EG-3101

Emergency diesel generator

Wellpad A

RATE 108 kw / 136 KVA

MAY 1 2024

Section	Description	Normal	Before	Running	Remark
Engine	Air filter	Clean	OK	OK	OK/AB
	Fuel Level > 80%	350	260	260	Liters
	Belt condition	Normal	OK	OK	OK/AB
	Coolant Level > 90%	Full	OK	OK	%
	Lube oil Level > 85%	Top mark	100	100	%
	Coolant temp.	25-85	36	89 / 82 / 86	°C
	Lube Oil press.	50-85	0	140-55	PSIG
	Engine speed	1500	0	1500-1501	RPM
	Battery Voltage	13-16	14.0	14.0	VDC
	Governor duty	25	0	29-29	%
Alternator	Active time delay	0	0	0	Sec.
	Voltage	L12 400	0	399	V.
		L23 400	0	400-401	V.
		L31 400	0	399	V.
	Voltage+ N	L1N 230	0	229-230	V.
		L2N 230	0	230	V.
		L3N 230	0	232	V.
	AMP.	L1 0	0	34	Amp.
		L2 0	0	30	Amp.
		L3 0	0	36	Amp.
More + History	Power	L1 0	0	4.1	Kw.
		L2 0	0	5.9	Kw.
		L3 0	0	5.3	Kw.
	Frequency	50	0	49.9-50.0	Hz.
	Total power	-	0	13.0	Kw.
	Number of starts	>0	1377	1377	times
	Engine run hours	>0	3177.0	3177.0	Hours
	Control Hours	>0	140350	140350	Hours
	Kw. Hours	>0	2240.4	2240.4	MW Hours
	Batt. Performance test (900CCA 12V)	-	CCA / %	CCA / %	CCA / %
Battery (Use Meter)	Batt. Stand by	-	13.1	13.0	VDC
	Crank voltage	-	12.0	12.0	VDC
	Charger current	-	14.0	0	VDC / Amp
	Test run	-	30	30	Minute
	Synchronize breaker status	ON	ON / OFF	ON / OFF	ON / OFF
	Radiator cap	Fix	Fix	Fix	Fix / loose
	Panel status	AUTO	Auto	Auto	Auto / Man
	Completed	-	ON	ON	ON / OFF
		-	Fix	Fix	Fix / loose
		-	AUTO	Auto	Auto / Man

Remark: 283 04r 112551.7 overspeed

138342 Emergency stop

138342 Emergency stop

137697.4 Low Ac Vol

137697.5 Remote stop

Recorded by: [Signature]
Date: 13/05/24



Emergency Diesel Generator Record

SPH03

TH-PHU-111-52-EG-1101

Emergency diesel generator

Wellpad B

RATE 108 kw / 136 KVA

MAY 1 2024

Section	Description	Normal	Before	Running	Remark
Engine	Air filter	Clean	OK	OK	OK/AB
	Fuel Level > 80%	350	260	260	Liters
	Belt condition	Normal	OK	OK	OK/AB
	Coolant Level > 90%	Full	OK	OK	%
	Lube oil Level > 85%	Top mark	100 / Top	100 / Top	%
	Coolant temp.	25-85	36	79 / 81	°C
	Lube Oil press.	50-85	0	79 / 60	PSIG
	Engine speed	1500	0	1500-1501	RPM
	Battery Voltage	13-16	13.0	13.0	VDC
	Governor duty	25	0	29	%
Alternator	Active time delay	0	0	0	Sec.
	Voltage	L12 400	0	392-393	V.
		L23 400	0	397	V.
		L31 400	0	390-391	V.
	Voltage+ N	L1N 230	0	229-230	V.
		L2N 230	0	231	V.
		L3N 230	0	227	V.
	AMP.	L1 0	0	0	Amp.
		L2 0	0	0	Amp.
		L3 0	0	0	Amp.
More + History	Power	L1 0	0	0	Kw.
		L2 0	0	0	Kw.
		L3 0	0	0	Kw.
	Frequency	50	0	50	Hz.
	Total power	-	0	0	Kw.
	Number of starts	>0	1612	1612	times
	Engine run hours	>0	2954.8	2955	Hours
	Control Hours	>0	15036.7	15036.7	Hours
	Kw. Hours	>0	2036.3	2036.3	MW Hours
	Batt. Performance test (900CCA 12V)	-	CCA / %	CCA / %	CCA / %
Battery (Use Meter)	Batt. Stand by	-	13.2	13.2	VDC
	Crank voltage	-	10.0	10.0	VDC
	Charger current	-	14.0	0.5	VDC / Amp
	Test run	-	30	30	Minute
	Synchronize breaker status	ON	ON	ON	ON / OFF
	Radiator cap	Fix	Fix	Fix	Fix / loose
	Panel status	AUTO	Auto	Auto	Auto / Man
	Completed	-	ON	ON	ON / OFF
		-	Fix	Fix	Fix / loose
		-	AUTO	Auto	Auto / Man

Remark: Panel Lamp Test OK.

Battery Starting system is normal

size of charge is 137.0

Recorded by: [Signature]
Date: 11/05/2024

Emergency Diesel Generator Record
SPH04
TH-PHU-112-52-EG-2101
Emergency diesel generator
Wellpad C
June 15, 2024

RATE 109 kw / 136 KVA

Section	Description	Normal	Before	Running	Remark	
Engine	Air filter	Clean	Clean	Clean	OK/AB	
	Fuel Level > 80%	350	250	250	Liters	
	Belt condition	Normal	OK	OK	OK/AB	
	Coolant Level > 90%	Full	100	100	%	
	Lube oil Level > 85%	Top mark	100	100	%	
	Coolant temp.	25-45	32-36	32-34	°C	
	Lube Oil press.	50-45	75 / 95	75 / 95	PSIG	
	Engine speed	1500	0	1499-1501	RPM	
	Battery Voltage	13-15	13.2	13.3	VDC	
	Governor duty	25	0	20-31	%	
Alternator	Active time delay	0	0-0	0-0	Sec.	
	Voltage	L12 400 L23 400 L31 400	0 0 0	399-400 400-401 400-401	V.	
	Voltage+ N	L1N 230 L2N 230 L3N 230	0 0 0	240-241 240-241 241-232	V.	
	AMP.	L1 0 L2 0 L3 0	0 0 0	0 0 0	Amp.	
	Power	L1 0 L2 0 L3 0	0 0 0	0 0 0	Kw.	
	Frequency	50	0	50.0-50.1	Hz.	
	Total power	-	0	0	Kw.	
	Number of starts	>=	1216	1217	times	
	Engine run hours	>=	2556.7	2556.7	Hours	
	Control Hours	>=	1339.2	1339.2	Hours	
More + History	Kw. Hours	>=	1401.4	1401.4	MW Hours	
	Batt. Performance test (900CCA 12V)		9.25	CCA / %	CCA / %	
	Batt. Stand by		13.2	VDC	VDC	
	Crank voltage		13.1	VDC	VDC	
	Substation	Charger current	12.0	Vdc / 0.6 Amp	VDC / Amp	
	Test run	Synchronize breaker status	ON	ON	ON / OFF	
	Completed	Radiator cap	Fix	Fix	Fix / loose	
	Panel status	Auto	Auto	Auto / Man		
	Remark	Panel Lamp Test normal				
		Battery test OK				

Recorded by: [Signature]
Date: 12/15/24

Emergency Diesel Generator Record
GPP
TH-PHU-115-52-EG-2101
Emergency diesel generator
Wellpad C
June 15, 2024

RATE 109 kw / 136 KVA

Section	Description	Normal	Before	Running	Remark	
Engine	Air filter	Clean	Clean	Clean	OK/AB	
	Fuel Level > 80%	350	250	250	Liters	
	Belt condition	Normal	OK	OK	OK/AB	
	Coolant Level > 90%	Full	100	100	%	
	Lube oil Level > 85%	Top mark	100	100	%	
	Coolant temp.	25-45	32-36	32-34	°C	
	Lube Oil press.	50-45	75 / 95	75 / 95	PSIG	
	Engine speed	1500	0	1499-1501	RPM	
	Battery Voltage	13-15	13.2	13.3	VDC	
	Governor duty	25	0	20-31	%	
Alternator	Active time delay	0	0-0	0-0	Sec.	
	Voltage	L12 400 L23 400 L31 400	0 0 0	399-400 400-401 400-401	V.	
	Voltage+ N	L1N 230 L2N 230 L3N 230	0 0 0	240-241 240-241 241-232	V.	
	AMP.	L1 0 L2 0 L3 0	0 0 0	0 0 0	Amp.	
	Power	L1 0 L2 0 L3 0	0 0 0	0 0 0	Kw.	
	Frequency	50	0	50.0-50.1	Hz.	
	Total power	-	0	0	Kw.	
	Number of starts	>=	1216	1217	times	
	Engine run hours	>=	2556.7	2556.7	Hours	
	Control Hours	>=	1339.2	1339.2	Hours	
More + History	Kw. Hours	>=	1401.4	1401.4	MW Hours	
	Batt. Performance test (900CCA 12V)		9.25	CCA / %	CCA / %	
	Batt. Stand by		13.2	VDC	VDC	
	Crank voltage		13.1	VDC	VDC	
	Substation	Charger current	12.0	Vdc / 0.6 Amp	VDC / Amp	
	Test run	Synchronize breaker status	ON	ON	ON / OFF	
	Completed	Radiator cap	Fix	Fix	Fix / loose	
	Panel status	Auto	Auto	Auto / Man		
	Remark	Panel Lamp Test normal				
		Battery test OK				

Recorded by: [Signature]
Date: 12/15/24

Remark: 141362.3 Aux comm Lost & 149095.9 Aux Comm Lost.
 @ 139154.9 Emergency stop
 @ 139154.2 Over speed
 137398.5 Fail to crank
 EDG test run no load. /

Emergency Diesel Generator Record
SPH05
TH-PHU-113-52-EG-3101
Emergency diesel generator
Wellpad A
June 15, 2024

RATE 109 kw / 136 KVA

Section	Description	Normal	Before	Running	Remark	
Engine	Air filter	Clean	Clean	Clean	OK/AB	
	Fuel Level > 80%	350	250	250	Liters	
	Belt condition	Normal	OK	OK	OK/AB	
	Coolant Level > 90%	Full	100	100	%	
	Lube oil Level > 85%	Top mark	100	100	%	
	Coolant temp.	25-45	32-36	32-34	°C	
	Lube Oil press.	50-45	75 / 95	75 / 95	PSIG	
	Engine speed	1500	0	1499-1501	RPM	
	Battery Voltage	13-15	13.2	13.3	VDC	
	Governor duty	25	0	20-31	%	
Alternator	Active time delay	0	0-0	0-0	Sec.	
	Voltage	L12 400 L23 400 L31 400	0 0 0	399-400 400-401 400-401	V.	
	Voltage+ N	L1N 230 L2N 230 L3N 230	0 0 0	240-241 240-241 241-232	V.	
	AMP.	L1 0 L2 0 L3 0	0 0 0	0 0 0	Amp.	
	Power	L1 0 L2 0 L3 0	0 0 0	0 0 0	Kw.	
	Frequency	50	0	50.0-50.1	Hz.	
	Total power	-	0	0	Kw.	
	Number of starts	>=	1216	1217	times	
	Engine run hours	>=	2556.7	2556.7	Hours	
	Control Hours	>=	1339.2	1339.2	Hours	
More + History	Kw. Hours	>=	1401.4	1401.4	MW Hours	
	Batt. Performance test (900CCA 12V)		9.25	CCA / %	CCA / %	
	Batt. Stand by		13.2	VDC	VDC	
	Crank voltage		13.1	VDC	VDC	
	Substation	Charger current	12.0	Vdc / 0.6 Amp	VDC / Amp	
	Test run	Synchronize breaker status	ON	ON	ON / OFF	
	Completed	Radiator cap	Fix	Fix	Fix / loose	
	Panel status	Auto	Auto	Auto / Man		
	Remark	Panel Lamp Test normal				
		Battery test OK				

Recorded by: [Signature]
Date: 12/15/24

History current code: 234 @ 128552.9, 14035 @ 113025.3, 141 @ 113041.4
 1433 @ 113042.5, 1447 @ 113048.1, 1454 @ 113049.1, 1461 @ 113050.1

Recorded by: [Signature]
Date: 07/10/2024

Emergency Diesel Generator Record
SPH03
TH-PHU-111-52-EG-1101
Emergency diesel generator
Wellpad B
June 15, 2024

RATE 109 kw / 136 KVA

Section	Description	Normal	Before	Running	Remark	
Engine	Air filter	Clean	Clean	Clean	OK/AB	
	Fuel Level > 80%	350	250	250	Liters	
	Belt condition	Normal	OK	OK	OK/AB	
	Coolant Level > 90%	Full	100	100	%	
	Lube oil Level > 85%	Top mark	100	100	%	
	Coolant temp.	25-45	32-36	32-34	°C	
	Lube Oil press.	50-45	75 / 95	75 / 95	PSIG	
	Engine speed	1500	0	1499-1501	RPM	
	Battery Voltage	13-15	13.2	13.3	VDC	
	Governor duty	25	0	20-31	%	
Alternator	Active time delay	0	0-0	0-0	Sec.	
	Voltage	L12 400 L23 400 L31 400	0 0 0	399-400 400-401 400-401	V.	
	Voltage+ N	L1N 230 L2N 230 L3N 230	0 0 0	240-241 240-241 241-232	V.	
	AMP.	L1 0 L2 0 L3 0	0 0 0	0 0 0	Amp.	
	Power	L1 0 L2 0 L3 0	0 0 0	0 0 0	Kw.	
	Frequency	50	0	50.0-50.1	Hz.	
	Total power	-	0	0	Kw.	
	Number of starts	>=	1216	1217	times	
	Engine run hours	>=	2556.7	2556.7	Hours	
	Control Hours	>=	1339.2	1339.2	Hours	
More + History	Kw. Hours	>=	1401.4	1401.4	MW Hours	
	Batt. Performance test (900CCA 12V)		9.25	CCA / %	CCA / %	
	Batt. Stand by		13.2	VDC	VDC	
	Crank voltage		13.1	VDC	VDC	
	Substation	Charger current	12.0	Vdc / 0.6 Amp	VDC / Amp	
	Test run	Synchronize breaker status	ON	ON	ON / OFF	
	Completed	Radiator cap	Fix	Fix	Fix / loose	
	Panel status	Auto	Auto	Auto / Man		
	Remark	Panel Lamp Test normal				
		Battery test OK				

Recorded by: [Signature]
Date: 12/15/24

History current code: 2552 @ 146130.6, 1435 @ 122023.7
 1433 @ 113042.5, 1447 @ 113048.1, 1454 @ 113049.1, 1461 @ 113050.1

Recorded by: [Signature]
Date: 07/10/2024



Emergency Diesel Generator Record

SPH04

TH-PHU-112-52-EG-2101

Emergency diesel generator

Wellpad C

DATE: 10/06/2024

J. P. 0000

Section	Description	Normal	Before	Running	Remark
Engine	Air filter	Clean	Clean	OK	OK/AB
	Fuel Level > 80%	350	270	270	Liters
	Belt condition	Normal		OK	OK/AB
	Coolant Level > 90%	Full	95	-	%
	Lube oil Level > 85%	Top mark	100	-	%
	Coolant temp.	25-45	30	88/81/85	°C
	Lube Oil press.	50-60	0	80/55	PSIG
	Engine speed	1500	0	1499-1501	RPM
	Battery Voltage	13-15	13.2	13.8	VDC
	Governor duty	25	0	27	%
Alternator	Active time delay	0	0	0	Sec
	Voltage	L12 400	0	399-400	V
		L23 400	0	400-401	V
		L31 400	0	400-401	V
	Voltage + N	L1N 230	0	230-231	V
		L2N 230	0	230-231	V
		L3N 230	0	231-232	V
	AMP	L1 0	0	0	Amp
		L2 0	0	0	Amp
		L3 0	0	0	Amp
Power	Power	L1 0	0	0	Kw
		L2 0	0	0	Kw
		L3 0	0	0	Kw
	Frequency	50	0	50.0	Hz
	Total power	-	0	0	Kw
Mhrs + History	Number of starts	>0	122	129	Times
	Engine run hours	>0	2559.6	2560.1	Hours
	Control Hours	>0	14184.2	14184.3	Hours
	Kw. Hours	>0	1401.4	1401.4	MW Hours
Battery (Use Meter)	Batt. Performance test (900CCA 12V)		951 CCA	63%	CCA / %
	Batt. Stand by		12.3		VDC
	Crank voltage		12.23		VDC
Substation	Charger current		14.0 Vdc	0.7 Amp	VDC / Amp
Test run			30		Minute
Completed	Synchronize breaker status	ON	ON	ON	ON / OFF
	Radiator cap	Fix	Fix	Fix	Fix / loose
	Panel status	AUTO	Auto	Auto	Auto / Man

Remark

Control panel lamp test OK

History current code: 1433 @Hr 137737.9, 141 @Hr 138722.3, 1434 @Hr 135216.3, 1443 @Hr 139269.7,

Recorded by

Date: 10/06/2024