

Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER: E9743/1 CE: NO

RATED OUTPUT	KVA	95	RATING CLASSIFICATION	PDP	
	KW	76			
	PHASE	3			
	VOLTS	400/230		PERFORMANCE CLASS	G1
	AMPS	137			
	HZ	50			
	RPM	1500			
GOVERNOR TYPE			MECHANICAL	COOLING METHOD	WATERCOOLED

ENGINE MAKE	PERMINS	BUILD NUMBER	YBS1438
ENGINE MODEL	1006 TG1A	SERIAL NUMBER	U8091360S
ALTERNATOR MAKE	MECC-ALPS	SERIAL NUMBER	A1096229
ALTERNATOR MODEL	ECP34-2S		
CONTROL PANEL(S)	MANUAL START	SERIAL NUMBER(S)	
SWITCHGEAR	—	SERIAL NUMBER(S)	

LOAD TEST RESULTS (AT UNITY POWER FACTOR)

LOAD TYPE	LOAD %	HZ	VOLTS	AMPS	KW	ENGINE TEMP DEG C	OIL TEMP DEG C	OIL PRESS BAR
load acceptance	75	50.8	400	82	57	—	—	4.8
standby/ prime+10%	110%	50.0	400	121	84	81	—	3.8

GENERATING SET ENCLOSURE MECHANICAL PROTECTION IP

AVERAGE SOUND PRESSURE LEVEL (DBA AT 1 M) —

(UNITS WITH ACOUSTIC CANOPIES ONLY & MEASURED UNDER TEST BAY CONDITIONS AT 75% LOAD IN ACCORDANCE WITH ISO8528-10)

AMBIENT TEST CONDITIONS		FUEL/OIL USED	
ALTITUDE (M)	Sea Level	FUEL SPEC	BS2869A2
BAROMETRIC PRESSURE (kpa)	101.3	DENSITY	0.84 kg/l
TEMPERATURE (Deg c)	14	CALORIFIC VALUE	42.5 MJ/kg
HUMIDITY (%)	914	LUB OIL SPEC	Multigrade

WIRING DIAGRAMS:

ENGINE	08-152300	CONTROL PANEL(S)	10-170800
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TESTED BY I. JOHNSON

DATE 17/07/2010

Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER: ECP43/2 CE: NO

RATED OUTPUT	KVA	<u>95</u>	RATING CLASSIFICATION	<u>PPP</u>
	KW	<u>76</u>		
	PHASE	<u>3</u>		
	VOLTS	<u>400/230</u>		PERFORMANCE CLASS <u>G1</u>
	AMPS	<u>137</u>		
	HZ	<u>50</u>		
	RPM	<u>1500</u>		
GOVERNOR TYPE			COOLING METHOD	<u>WATERCOOLED</u>

ENGINE MAKE	<u>PERMINS</u>	BUILD NUMBER	<u>YBS1438</u>
ENGINE MODEL	<u>V006 TG1A</u>	SERIAL NUMBER	<u>U899344S</u>
ALTERNATOR MAKE	<u>MECC-ALDE</u>	SERIAL NUMBER	<u>A1097967</u>
ALTERNATOR MODEL	<u>ECP34-2S</u>		
CONTROL PANEL(S)	<u>MANUAL START</u>	SERIAL NUMBER(S)	
SWITCHGEAR	<u>—</u>	SERIAL NUMBER(S)	

LOAD TEST RESULTS (AT UNITY POWER FACTOR)

LOAD TYPE	LOAD %	HZ	VOLTS	AMPS	KW	ENGINE TEMP DEG C	OIL TEMP DEG C	OIL PRESS BAR
load acceptance	<u>75</u>	<u>50.7</u>	<u>400</u>	<u>82</u>	<u>57</u>	<u>—</u>	<u>—</u>	<u>5.4</u>
standby/ prime+10%	<u>110%</u>	<u>50.0</u>	<u>400</u>	<u>121</u>	<u>84</u>	<u>81</u>	<u>—</u>	<u>4.6</u>

GENERATING SET ENCLOSURE MECHANICAL PROTECTION

IP

AVERAGE SOUND PRESSURE LEVEL (DBA AT 1 M)

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(UNITS WITH ACOUSTIC CANOPIES ONLY & MEASURED UNDER TEST BAY CONDITIONS AT 75% LOAD IN ACCORDANCE WITH ISO8528-10)

AMBIENT TEST CONDITIONS		FUEL/OIL USED	
ALTITUDE (M)	<u>Sea Level</u>	FUEL SPEC	<u>BS2869A2</u>
BAROMETRIC PRESSURE (kpa)	<u>101.3</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>15</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>88</u>	LUB OIL SPEC	<u>Multigrade</u>

WIRING DIAGRAMS:

ENGINE	<u>08-152300</u>	CONTROL PANEL(S)	<u>10-170800</u>
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TESTED BY

I. JOHNSON

DATE

17/07/2010