

Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER: E9940/1 CE: No

RATED OUTPUT	KVA	150	RATING CLASSIFICATION	PRP	
	KW	120			
	PHASE	3			
	VOLTS	400/230		PERFORMANCE CLASS	G1
	AMPS	217			(AS DEFINED BY ISO 8528-1)
	HZ	50			
	RPM	1500			
GOVERNOR TYPE			Electronic	COOLING METHOD	WATERCOOLED

ENGINE MAKE	Perkins	BUILD NUMBER	YDS1441
ENGINE MODEL	1006TAG2	SERIAL NUMBER	U9182754
ALTERNATOR MAKE	Merc Alte		
ALTERNATOR MODEL	ECP 34-2L/4	SERIAL NUMBER	A1089664
CONTROL PANEL(S)	Autostart	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	50%	50.0	400	87	60	-	-	4.6
standby/ prime+10%	110%	50.0	400	191	132	81	-	4.1

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 ISO 8528-10)

AMBIENT TEST CONDITIONS		FUEL/OIL USED	
ALTITUDE (M)	Sea Level	FUEL SPEC	BS2869A2
BAROMETRIC PRESSURE (kpa)	101.4	DENSITY	0.84 kg/l
TEMPERATURE (Deg c)	14	CALORIFIC VALUE	42.5 MJ/kg
HUMIDITY (%)	94	LUB OIL SPEC	Multigrade

WIRING DIAGRAMS:

ENGINE	09-160900	CONTROL PANEL(S)	10-170800
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TESTED BY

H. Wal

DATE 27/09/2010

Generating Set Functional Test Report
In accordance with ISO 8528 - 6 2005

PLANT NUMBER: E9940/2 CE: No

RATED OUTPUT	KVA	<u>150</u>	RATING CLASSIFICATION	<u>PRP</u>	
	KW	<u>120</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>400/230</u>		PERFORMANCE CLASS	<u>G1</u>
	AMPS	<u>217</u>			(AS DEFINED BY ISO 8528-1)
	HZ	<u>50</u>			
	RPM	<u>1500</u>			
GOVERNOR TYPE	<u>Electronic</u>	COOLING METHOD	<u>WATERCOOLED</u>		

ENGINE MAKE	<u>Perkins</u>	BUILD NUMBER	<u>YDS1441</u>
ENGINE MODEL	<u>1006TAG2</u>	SERIAL NUMBER	<u>UA18427U</u>
ALTERNATOR MAKE	<u>Mecc Alte</u>	SERIAL NUMBER	<u>A1093300</u>
ALTERNATOR MODEL	<u>ECP 24-2L/4</u>	SERIAL NUMBER(S)	
CONTROL PANEL(S)	<u>Autostart</u>	SERIAL NUMBER(S)	
SWITCHGEAR		SERIAL NUMBER(S)	

LOAD TEST RESULTS (AT UNITY POWER FACTOR)								
TYPE	LOAD %	HZ	VOLTS	AMPS	KW	ENGINE TEMP DEG C	OIL TEMP DEG C	OIL PRESS BAR
load acceptance	<u>50%</u>	<u>500</u>	<u>400</u>	<u>87</u>	<u>60</u>	<u>-</u>	<u>-</u>	<u>4.9</u>
standby/prime+10%	<u>110%</u>	<u>500</u>	<u>400</u>	<u>191</u>	<u>132</u>	<u>82</u>	<u>-</u>	<u>4.2</u>

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)	<u>Sea Level</u>	FUEL SPEC	<u>BS2869A2</u>
BAROMETRIC PRESSURE (kpa)	<u>1015</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>14</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>94</u>	LUB OIL SPEC	<u>Multigrade</u>

WIRING DIAGRAMS:			
ENGINE	<u>09-160900</u>	CONTROL PANEL(S)	<u>10-170800</u>

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DATE 27/09/2010