

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

PLANT NUMBER: E9945/1 CE: Yes

RATED OUTPUT	KVA	<u>30</u>	RATING CLASSIFICATION	<u>PRP</u>	
	KW	<u>24</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>230</u>		PERFORMANCE CLASS	<u>G1</u>
	AMPS	<u>75</u>		(AS DEFINED BY ISO 8528-1)	
	HZ	<u>50</u>			
	RPM	<u>1500</u>			
GOVERNOR TYPE	<u>Mechanical</u>		COOLING METHOD	<u>WATERCOOLED</u>	

ENGINE MAKE	<u>Perkins</u>	BUILD NUMBER	<u>DJS1434</u>
ENGINE MODEL	<u>1103A-33G</u>	SERIAL NUMBER	<u>U2494114</u>
ALTERNATOR MAKE	<u>Stamford</u>		
ALTERNATOR MODEL	<u>P144G</u>	SERIAL NUMBER	<u>0267426/006</u>
CONTROL PANEL(S)	<u>Autostart</u>	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	<u>90%</u>	<u>50.6</u>	<u>230</u>	<u>54</u>	<u>22</u>	<u>-</u>	<u>-</u>	<u>4.6</u>
standby/ prime+10%	<u>110%</u>	<u>50.0</u>	<u>230</u>	<u>66</u>	<u>26</u>	<u>82</u>	<u>-</u>	<u>4.1</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>102.0</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>10</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>100</u>	LUB OIL SPEC	<u>Multigrade</u>

WIRING DIAGRAMS:

ENGINE	<u>10-169900</u>	CONTROL PANEL(S)	<u>10-175200</u>
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TESTED BY

H. Wall

DATE 15/10/2010

Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER: E9945/2 CE: Yes

RATED OUTPUT	KVA	30	RATING CLASSIFICATION	PRP	
	KW	24			
	PHASE	3			
	VOLTS	230		PERFORMANCE CLASS	G1
	AMPS	75			(AS DEFINED BY ISO 8528-1)
	HZ	50			
	RPM	1500			
GOVERNOR TYPE	Mechanical		COOLING METHOD	WATERCOOLED	

ENGINE MAKE	Perkins	BUILD NUMBER	DJS1434
ENGINE MODEL	1103A-23G	SERIAL NUMBER	U249408U
ALTERNATOR MAKE	Stamford	SERIAL NUMBER	0267426/005
ALTERNATOR MODEL	P144G	SERIAL NUMBER(S)	
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	90%	50.5	230	54	22	-	-	4.6
standby/ prime+10%	110%	50.0	230	66	26	83	-	4.3

GENERATING SET ENCLOSURE MECHANICAL PROTECTION

IP

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BAROMETRIC PRESSURE (kpa)	102.0	DENSITY	0.84 kg/l
TEMPERATURE (Deg c)	10	CALORIFIC VALUE	42.5 MJ/kg
HUMIDITY (%)	100	LUB OIL SPEC	Multigrade

WIRING DIAGRAMS:

ENGINE	10-169900	CONTROL PANEL(S)	10-175200
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