

## Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER: E9844

CE: NO

RATED OUTPUT	KVA	<u>150</u>	RATING CLASSIFICATION	<u>PMP</u>
	KW	<u>120</u>		
	PHASE	<u>3</u>		
	VOLTS	<u>415/240</u>		PERFORMANCE CLASS <span style="border: 1px solid black; padding: 2px;"><u>G1</u></span>
	AMPS	<u>209</u>		
	HZ	<u>50</u>		
	RPM	<u>1500</u>		
GOVERNOR TYPE			COOLING METHOD	<u>WATERCOOLED</u>

ENGINE MAKE	<u>PERKINS</u>	BUILD NUMBER	<u>YDS1441</u>
ENGINE MODEL	<u>1006 TAG2</u>	SERIAL NUMBER	<u>U910973T</u>
ALTERNATOR MAKE	<u>STAMFORD</u>		
ALTERNATOR MODEL	<u>UC8 274F</u>	SERIAL NUMBER	<u>0269534/04</u>
CONTROL PANEL(S)	<u>MUTUAL 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>50</u>	<u>50.0</u>	<u>415</u>	<u>84</u>	<u>60</u>	<u>—</u>	<u>—</u>	<u>5.1</u>
standby/ prime+10%	<u>110%</u>	<u>50.0</u>	<u>415</u>	<u>184</u>	<u>132</u>	<u>81</u>	<u>—</u>	<u>3.8</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>101.0</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>22</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>73</u>	LUB OIL SPEC	<u>Multigrade</u>

### WIRING DIAGRAMS:

ENGINE		CONTROL PANEL(S)	

TESTED BY

I. JOHNSON

DATE 20/07/2010