

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

PLANT NUMBER: E9731 CE: No

RATED OUTPUT	KVA	<u>400</u>	RATING CLASSIFICATION	<u>PRP</u>		
	KW	<u>320</u>				
	PHASE	<u>3</u>				
	VOLTS	<u>415/240</u>			PERFORMANCE CLASS	<u>G1</u>
	AMPS	<u>557</u>			(AS DEFINED BY ISO 8528-1)	
	HZ	<u>50</u>				
	RPM	<u>1500</u>				
GOVERNOR TYPE	<u>ECM</u>	COOLING METHOD	<u>WATERCOOLED</u>			

ENGINE MAKE	<u>Perkins</u>	BUILD NUMBER	<u>TGDF5018</u>
ENGINE MODEL	<u>2206A-E13TAG3</u>	SERIAL NUMBER	<u>U16053U</u>
ALTERNATOR MAKE	<u>Stamford</u>		
ALTERNATOR MODEL	<u>HCI 444F</u>	SERIAL NUMBER	<u>0269585/002</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>50%</u>	<u>50.0</u>	<u>415</u>	<u>223</u>	<u>160</u>	<u>28</u>	<u>-</u>	<u>4.2</u>
standby/ prime+10%	<u>110%</u>	<u>50.0</u>	<u>415</u>	<u>490</u>	<u>352</u>	<u>88</u>	<u>-</u>	<u>2.6</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>101.6</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>19</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>64</u>	LUB OIL SPEC	<u>Multigrade</u>

**WIRING DIAGRAMS:**

ENGINE	<u>2000 Diagram</u>	CONTROL PANEL(S)	<u>09-162200</u>
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TESTED BY H.Wal

DATE 28/07/2010