

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

PLANT NUMBER: B9857 CE: NO

RATED OUTPUT	KVA	<u>16</u>	RATING CLASSIFICATION	<u>PMP</u>
	KW	<u>12.8</u>		
	PHASE	<u>1</u>		
	VOLTS	<u>230</u>	PERFORMANCE CLASS	<u>G1</u>
	AMPS	<u>70</u>		
	HZ	<u>50</u>		
	RPM	<u>1500</u>	(AS DEFINED BY ISO 8528-1)	
GOVERNOR TYPE	<u>MECHANICAL</u>		COOLING METHOD	<u>WATERCOOLED</u>

ENGINE MAKE	<u>PERMINS</u>	BUILD NUMBER	<u>GNG5732</u>
ENGINE MODEL	<u>L404D-22G</u>	SERIAL NUMBER	<u>U988831ET</u>
ALTERNATOR MAKE	<u>MECC-ALTE</u>		
ALTERNATOR MODEL	<u>E1028-VL-4</u>	SERIAL NUMBER	<u>0001432247</u>
CONTROL PANEL(S)	<u>AUTO 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>80</u>	<u>50.6</u>	<u>231</u>	<u>45</u>	<u>10.2</u>	<u>—</u>	<u>—</u>	<u>5.1</u>
standby/ prime+10%	<u>110%</u>	<u>50.0</u>	<u>230</u>	<u>62</u>	<u>14.0</u>	<u>82</u>	<u>—</u>	<u>4.6</u>

GENERATING SET ENCLOSURE MECHANICAL PROTECTION

IP
75

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>101.9</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>17</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>72</u>	LUB OIL SPEC	<u>Multigrade</u>

WIRING DIAGRAMS:

ENGINE	<u>08-152300</u>	CONTROL PANEL(S)	<u>10-170700</u>
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TESTED BY I. JOHNSON

DATE 06/10/2010