

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

PLANT NUMBER: ES738 CE: NO

RATED OUTPUT	KVA	<u>28</u>	RATING CLASSIFICATION	<u>PRP</u>	
	KW	<u>22.4</u>			
	PHASE	<u>1</u>			
	VOLTS	<u>220</u>		PERFORMANCE CLASS	<u>64</u>
	AMPS	<u>127</u>		(AS DEFINED BY ISO 8528-1)	
	HZ	<u>50</u>			
	RPM	<u>1500</u>			
GOVERNOR TYPE			COOLING METHOD: <u>WATERCOOLED</u>		

ENGINE MAKE	<u>PERKINS</u>	BUILD NUMBER	<u>D357434</u>
ENGINE MODEL	<u>1103A-336</u>	SERIAL NUMBER	<u>1243353U</u>
ALTERNATOR MAKE	<u>MAAC-ALTE</u>		
ALTERNATOR MODEL	<u>ECO 32-1L/4</u>	SERIAL NUMBER	<u>A10855.35</u>
CONTROL PANEL(S)	<u>AUTO-START</u>	SERIAL NUMBER(S)	
SWITCHGEAR		SERIAL NUMBER(S)	

LOAD TEST RESULTS (AT UNITY POWER FACTOR)								
LOAD TYPE	LOAD %	HZ	VOLTS	AMPS	KW	ENGINE TEMP	OIL TEMP	OIL PRESS
						DEG C	DEG C	BAR
load acceptance	<u>80</u>	<u>50.4</u>	<u>220</u>	<u>816</u>	<u>20.1</u>	<u>—</u>	<u>—</u>	<u>4.8</u>
standby/ prime+10%	<u>110%</u>	<u>50</u>	<u>220</u>	<u>112</u>	<u>24.6</u>	<u>89</u>	<u>—</u>	<u>4.4</u>

GENERATING SET ENCLOSURE MECHANICAL PROTECTION IP
 AVERAGE SOUND PRESSURE LEVEL (DBA AT 1 M) 75
 (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)	<u>Sea Level</u>	FUEL SPEC	<u>BS2869A2</u>
BAROMETRIC PRESSURE (kpa)	<u>1023</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>06-130700</u>	CONTROL PANEL(S)	<u>10-175100</u>
			<u>10-170700</u>

TESTED BY
C. J. Tennant

DATE 02/08/2010