

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

PLANT NUMBER: EA973 CE: Yes

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>G1</u>	
	AMPS	<u>127</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-23G</u>	SERIAL NUMBER	<u>U250920U</u>
ALTERNATOR MAKE	<u>Mecc Alte</u>	SERIAL NUMBER	<u>0001444146</u>
ALTERNATOR MODEL	<u>ECO 32-1L</u>	SERIAL NUMBER(S)	
CONTROL PANEL(S)	<u>Autostart</u>	SERIAL NUMBER(S)	
SWITCHGEAR	<u>ATS</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>90%</u>	<u>50.5</u>	<u>220</u>	<u>92</u>	<u>20</u>	<u>-</u>	<u>-</u>	<u>4.7</u>
standby/ prime+10%	<u>110%</u>	<u>50.0</u>	<u>220</u>	<u>112</u>	<u>25</u>	<u>82</u>	<u>-</u>	<u>4.2</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>101.9</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>10</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>94</u>	LUB OIL SPEC	<u>Multigrade</u>

WIRING DIAGRAMS:	
ENGINE	<u>08-156700</u>
CONTROL PANEL(S)	<u>AM1-145</u> <u>10-176700</u>

TESTED BY H. Wall

DATE 15/10/2010