

## Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER:

E8738

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>D551434</u>
ENGINE MODEL	<u>1103A-336</u>	SERIAL NUMBER	<u>124.3353U</u>
ALTERNATOR MAKE	<u>EMAC - 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 DEG C	OIL TEMP DEG C	OIL PRESS BAR
load acceptance	<u>80</u>	<u>50,4</u>	<u>220</u>	<u>81,6</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 ISO8528-10)

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. Jernell

DATE

02/08/2010