

## Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER:

E 9763

CE:

No Yes

RATED OUTPUT	KVA	<u>350</u>	RATING CLASSIFICATION	<u>PRP</u>	
	KW	<u>280</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>400/230</u>		PERFORMANCE CLASS	<u>G1</u>
	AMPS	<u>506</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>TG B F 5112</u>
ENGINE MODEL	<u>2206A-E13TAG2</u>	SERIAL NUMBER	<u>U11464U</u>
ALTERNATOR MAKE	<u>Macc Alte</u>		
ALTERNATOR MODEL	<u>ECO 38-3LN/4</u>	SERIAL NUMBER	<u>A1095529</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>400</u>	<u>202</u>	<u>140</u>	<u>46</u>	<u>-</u>	<u>4.3</u>
standby/ prime+10%	<u>110%</u>	<u>50.0</u>	<u>400</u>	<u>445</u>	<u>308</u>	<u>88</u>	<u>-</u>	<u>2.8</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>101.2</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>18</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>77</u>	LUB OIL SPEC	<u>Multigrade</u>

### WIRING DIAGRAMS:

ENGINE	<u>2k series</u>	CONTROL PANEL(S)	<u>09-162200A</u>
			<u>Am3-539</u>

TESTED BY

H. Wall

DATE 07/08/2010