

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

PLANT NUMBER: E9756 CE: No

RATED OUTPUT	KVA	<u>250</u>	RATING CLASSIFICATION	<u>PRP</u>			
	KW	<u>200</u>					
	PHASE	<u>3</u>					
	VOLTS	<u>400/230</u>			PERFORMANCE CLASS	<u>G1</u>	
	AMPS	<u>361</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>WGHP7004</u>
ENGINE MODEL	<u>D06C-E87TAGG</u>	SERIAL NUMBER	<u>N10251U</u>
ALTERNATOR MAKE	<u>Merc Alte</u>		
ALTERNATOR MODEL	<u>RCO 38-14/N4</u>	SERIAL NUMBER	<u>A1007283</u>
CONTROL PANEL(S)	<u>Amstart</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>36%</u>	<u>50.0</u>	<u>400</u>	<u>104</u>	<u>72</u>	<u>31</u>	<u>-</u>	<u>4.4</u>
standby/ prime+10%	<u>110%</u>	<u>50.0</u>	<u>400</u>	<u>318</u>	<u>220</u>	<u>92</u>	<u>-</u>	<u>3.2</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>101.0</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>15</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>88</u>	LUB OIL SPEC	<u>Multigrade</u>

**WIRING DIAGRAMS:**

ENGINE	<u>06-136000</u>	CONTROL PANEL(S)	<u>09-166400</u>
			<u>Am3-093A</u>

TESTED BY

*H.W.L.*

DATE 22/07/2010