

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

PLANT NUMBER: EQ764 CE: NO

RATED OUTPUT	KVA	<u>27</u>	RATING CLASSIFICATION	<u>PnP</u>	
	KW	<u>21.6</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>400/230</u>		PERFORMANCE CLASS	<u>C1</u>
	AMPS	<u>39</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-33G</u>	SERIAL NUMBER	<u>U243309U</u>
ALTERNATOR MAKE	<u>SPAMFORD</u>		
ALTERNATOR MODEL	<u>PZ44F</u>	SERIAL NUMBER	<u>B10M307522</u>
CONTROL PANEL(S)	<u>MULTIPL SPART</u>	SERIAL NUMBER(S)	
SWITCHGEAR	<u>—</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>50.4</u>	<u>400</u>	<u>28.0</u>	<u>19.4</u>	<u>—</u>	<u>—</u>	<u>4.9</u>
standby/ prime+10%	<u>110%</u>	<u>50.0</u>	<u>400</u>	<u>34.3</u>	<u>23.7</u>	<u>83</u>	<u>—</u>	<u>4.6</u>

GENERATING SET ENCLOSURE MECHANICAL PROTECTION

IP  
7S

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>99.5</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>16</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>94</u>	LUB OIL SPEC	<u>Multigrade</u>

**WIRING DIAGRAMS:**

ENGINE	<u>06-130700</u>	CONTROL PANEL(S)	<u>AM3-986F</u>
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TESTED BY

I. JOHNSON

DATE 23/08/2010