

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

PLANT NUMBER: EQ721 CE: NO

RATED OUTPUT	KVA	<u>250</u>	RATING CLASSIFICATION	<u>PPP</u>	
	KW	<u>200</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>400/230</u>		PERFORMANCE CLASS	<u>GT</u>
	AMPS	<u>361</u>		(AS DEFINED BY ISO 8528-1)	
	HZ	<u>50</u>			
	RPM	<u>1500</u>			
GOVERNOR TYPE	<u>E.C.M.</u>	COOLING METHOD	<u>WATERCOOLED</u>		

ENGINE MAKE	<u>PENKINS</u>	BUILD NUMBER	<u>WQHP7004</u>
ENGINE MODEL	<u>1306 - B87K6</u>	SERIAL NUMBER	<u>N104114</u>
ALTERNATOR MAKE	<u>WIECC - ALTE</u>		
ALTERNATOR MODEL	<u>ELD 38 - 1L4</u>	SERIAL NUMBER	<u>A1093054</u>
CONTROL PANEL(S)	<u>AUTOSPAR</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>36</u>	<u>50.0</u>	<u>400</u>	<u>104</u>	<u>72</u>	<u>—</u>	<u>—</u>	<u>4.2</u>
standby/ prime+10%	<u>110%</u>	<u>50.0</u>	<u>400</u>	<u>318</u>	<u>220</u>	<u>90</u>	<u>99</u>	<u>3.2</u>

GENERATING SET ENCLOSURE MECHANICAL PROTECTION

IP

AVERAGE SOUND PRESSURE LEVEL (DBA AT 1 M)

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(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>100.9</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>16</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>77</u>	LUB OIL SPEC	<u>Multigrade</u>

**WIRING DIAGRAMS:**

ENGINE	<u>06 - 136000</u>	CONTROL PANEL(S)	<u>10 - 171700</u>
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TESTED BY

Z. JOHNSON

DATE 13/07/2010