

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

PLANT NUMBER: E9989 CE: NO

RATED OUTPUT	KVA	<u>650</u>	RATING CLASSIFICATION	<u>Prp</u>			
	KW	<u>520</u>					
	PHASE	<u>3</u>					
	VOLTS	<u>415/240</u>			PERFORMANCE CLASS	<u>G1</u>	
	AMPS	<u>904</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>JCBPSU9</u>
ENGINE MODEL	<u>2806A-B18TAGZ</u>	SERIAL NUMBER	<u>U19713U</u>
ALTERNATOR MAKE	<u>STAMPOND</u>	SERIAL NUMBER	<u>0273650/005</u>
ALTERNATOR MODEL	<u>HCR 544F</u>	SERIAL NUMBER(S)	
CONTROL PANEL(S)	<u>AVD 7120</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>100</u>	<u>50.0</u>	<u>415</u>	<u>723</u>	<u>520</u>	<u>—</u>	<u>—</u>	<u>5.4</u>
standby/ prime+10%	<u>110%</u>	<u>50.0</u>	<u>415</u>	<u>796</u>	<u>572</u>	<u>88</u>	<u>—</u>	<u>4.1</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>100.3</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>14</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>77</u>	LUB OIL SPEC	<u>Multigrade</u>

WIRING DIAGRAMS:

ENGINE	<u>2000 DIAGRAM</u>	CONTROL PANEL(S)	<u>09-162200</u>
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TESTED BY I. JOHNSON

DATE 02/11/200