

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

PLANT NUMBER: B9821/1 CE: NO

RATED OUTPUT	KVA	<u>640</u>	RATING CLASSIFICATION	<u>PDP</u>	
	KW	<u>512</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>400/230</u>		PERFORMANCE CLASS	<u>G1</u>
	AMPS	<u>924</u>		(AS DEFINED BY ISO 8528-1)	
	HZ	<u>50</u>			
	RPM	<u>1500</u>			
GOVERNOR TYPE	<u>B.C.U.</u>	COOLING METHOD	<u>WATERCOOLED</u>		

ENGINE MAKE	<u>PERKINS</u>	BUILD NUMBER	<u>SGBFS119</u>
ENGINE MODEL	<u>2806A-B18TAG2</u>	SERIAL NUMBER	<u>U15153U</u>
ALTERNATOR MAKE	<u>STANFORD</u>	SERIAL NUMBER	<u>0270175/006</u>
ALTERNATOR MODEL	<u>HCP 546F</u>	SERIAL NUMBER(S)	
CONTROL PANEL(S)	<u>AV1250M2</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>400</u>	<u>739</u>	<u>512</u>	<u>—</u>	<u>—</u>	<u>5.6</u>
standby/ prime+10%	<u>110%</u>	<u>50.0</u>	<u>400</u>	<u>813</u>	<u>563</u>	<u>88</u>	<u>—</u>	<u>4.2</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>100.9</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>18</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>88</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 H. Wal

DATE 11/09/2010

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

PLANT NUMBER: B9821/2 CE: NO

RATED OUTPUT	KVA	<u>640</u>	RATING CLASSIFICATION	<u>PDP</u>	
	KW	<u>512</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>400/230</u>		PERFORMANCE CLASS	<u>G1</u>
	AMPS	<u>924</u>			(AS DEFINED BY ISO 8528-1)
	HZ	<u>50</u>			
	RPM	<u>1500</u>			
GOVERNOR TYPE	<u>E.C.U.</u>	COOLING METHOD	<u>WATERCOOLED</u>		

ENGINE MAKE	<u>PENNING</u>	BUILD NUMBER	<u>JGBFS119</u>
ENGINE MODEL	<u>2806A-B18TAG2</u>	SERIAL NUMBER	<u>U16583U</u>
ALTERNATOR MAKE	<u>STANFORD</u>	SERIAL NUMBER	<u>0270175/013</u>
ALTERNATOR MODEL	<u>HCR 546F</u>	SERIAL NUMBER(S)	
CONTROL PANEL(S)	<u>AVDSDMNT</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>400</u>	<u>739</u>	<u>512</u>	<u>—</u>	<u>—</u>	<u>5.7</u>
standby/ prime+10%	<u>110%</u>	<u>50.0</u>	<u>400</u>	<u>813</u>	<u>563</u>	<u>87</u>	<u>—</u>	<u>4.2</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>100.9</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>21</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>68</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

H. Wal

DATE 11/09/2010