

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

PLANT NUMBER: B9821/3 CE: NO

RATED OUTPUT	KVA	<u>640</u>	RATING CLASSIFICATION	<u>PRP</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>PERMINS</u>	BUILD NUMBER	<u>JGBFS119</u>
ENGINE MODEL	<u>2806A-B18TAG2</u>	SERIAL NUMBER	<u>U16586U</u>
ALTERNATOR MAKE	<u>STANFORD</u>		
ALTERNATOR MODEL	<u>HCP 544F</u>	SERIAL NUMBER	<u>0270175/009</u>
CONTROL PANEL(S)	<u>AVDSMNT</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>89</u>	<u>—</u>	<u>4.3</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>100.7</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>2000 Diagram</u> CONTROL PANEL(S) <u>09-162200</u>

TESTED BY H. Ward

DATE 14/09/2010