

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

PLANT NUMBER: EG754 CE: NO

RATED OUTPUT	KVA	<u>450</u>	RATING CLASSIFICATION	<u>PMP</u>	
	KW	<u>360</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>380/220</u>		PERFORMANCE CLASS	<u>G1</u>
	AMPS	<u>684</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>PENINS</u>	BUILD NUMBER	<u>MGAFS125</u>
ENGINE MODEL	<u>2506A - B15 DACH</u>	SERIAL NUMBER	<u>U167764</u>
ALTERNATOR MAKE	<u>SPRANFOND</u>	SERIAL NUMBER	<u>0261410/016</u>
ALTERNATOR MODEL	<u>HCR S44C</u>	SERIAL NUMBER(S)	
CONTROL PANEL(S)	<u>AUTO START</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>65</u>	<u>50.0</u>	<u>380</u>	<u>356</u>	<u>234</u>	<u>—</u>	<u>—</u>	<u>5.3</u>
standby/ prime+10%	<u>110%</u>	<u>50.0</u>	<u>380</u>	<u>602</u>	<u>396</u>	<u>88</u>	<u>—</u>	<u>4.4</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 ISO 8528-10)

AMBIENT TEST CONDITIONS		FUEL/OIL USED	
ALTITUDE (M)	<u>Sea Level</u>	FUEL SPEC	<u>BS2869A2</u>
BAROMETRIC PRESSURE (kpa)	<u>102.2</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>13</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>100</u>	LUB OIL SPEC	<u>Multigrade</u>

**WIRING DIAGRAMS:**

ENGINE	<u>2000 Diagram</u>	CONTROL PANEL(S)	<u>10-17/100</u>
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TESTED BY I. JOHNSON

DATE 02/09/2010