

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

PLANT NUMBER: E9804/3 CE: NO

RATED OUTPUT	KVA	<u>440</u>	RATING CLASSIFICATION	<u>BSP</u>	
	KW	<u>352</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>400/230</u>		PERFORMANCE CLASS	<u>G1</u>
	AMPS	<u>635</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>PENINS</u>	BUILD NUMBER	<u>TGDF5018</u>
ENGINE MODEL	<u>2206A-E137A43</u>	SERIAL NUMBER	<u>U16752U</u>
ALTERNATOR MAKE	<u>MBCL-ALTE</u>		
ALTERNATOR MODEL	<u>EC040-1S/4</u>	SERIAL NUMBER	<u>000146579</u>
CONTROL PANEL(S)	<u>AUDOSPAR</u>	SERIAL NUMBER(S)	
SWITCHGEAR	<u>A-T-S</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>60</u>	<u>50.0</u>	<u>400</u>	<u>305</u>	<u>211</u>	<u>-</u>	<u>-</u>	<u>4.4</u>
standby/ prime+10%	<u>110%</u>	<u>50.0</u>	<u>400</u>	<u>508</u>	<u>352</u>	<u>88</u>	<u>-</u>	<u>2.8</u>

GENERATING SET ENCLOSURE MECHANICAL PROTECTION

IP  
85

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>102.3</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>11</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>09-162200</u>
			<u>10-173300</u>

TESTED BY

I. JOHNSON

DATE 03/09/2010