

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>B.C.U.</u>		COOLING METHOD	<u>WATERCOOLED</u>		

ENGINE MAKE	<u>PERMINS</u>	BUILD NUMBER	<u>TGDF5018</u>
ENGINE MODEL	<u>2206A-B13TA43</u>	SERIAL NUMBER	<u>U16752U</u>
ALTERNATOR MAKE	<u>MBCL-ARTE</u>	SERIAL NUMBER	<u>000146579</u>
ALTERNATOR MODEL	<u>EC040-1S/4</u>	SERIAL NUMBER(S)	
CONTROL PANEL(S)	<u>AVDSMANT</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	OIL TEMP	OIL PRESS
						DEG C	DEG C	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>
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TESTED BY

I. JOHNSON

DATE 03/09/2010