

Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER:

E9830

CE:

NO

RATED OUTPUT	KVA	<u>20</u>	RATING CLASSIFICATION	<u>PDP</u>
	KW	<u>16</u>		
	PHASE	<u>3</u>		
	VOLTS	<u>380/220</u>	PERFORMANCE CLASS	<u>G1</u>
	AMPS	<u>30</u>	(AS DEFINED BY ISO 8528-1)	
	HZ	<u>50</u>		
	RPM	<u>1500</u>		
GOVERNOR TYPE		<u>MECHANICAL</u>	COOLING METHOD	<u>WATERCOOLED</u>

ENGINE MAKE	<u>PERMINS</u>	BUILD NUMBER	<u>GN65732</u>
ENGINE MODEL	<u>404D-22</u>	SERIAL NUMBER	<u>U984356T</u>
ALTERNATOR MAKE	<u>MECC ALTE</u>		
ALTERNATOR MODEL	<u>ECO28-144</u>	SERIAL NUMBER	<u>A1099164</u>
CONTROL PANEL(S)	<u>AUTO START</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>80</u>	<u>50.5</u>	<u>381</u>	<u>19.2</u>	<u>12.8</u>	<u>-</u>	<u>-</u>	<u>5.1</u>
standby/ prime+10%	<u>110%</u>	<u>50.0</u>	<u>380</u>	<u>26.4</u>	<u>17.6</u>	<u>82</u>	<u>-</u>	<u>3.9</u>

GENERATING SET ENCLOSURE MECHANICAL PROTECTION

IP

AVERAGE SOUND PRESSURE LEVEL (DBA AT 1 M)

75

(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>88</u>	LUB OIL SPEC	<u>Multigrade</u>

WIRING DIAGRAMS:

ENGINE	<u>08-152300</u>	CONTROL PANEL(S)	<u>10-173300</u>
			<u>10-170300</u>

TESTED BY

I. JOHNSON

DATE 10/08/2010