

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

PLANT NUMBER: B9929 CE: NO

RATED OUTPUT	KVA	<u>11</u>	RATING CLASSIFICATION	<u>POP</u>			
	KW	<u>8.8</u>					
	PHASE	<u>1</u>					
	VOLTS	<u>230</u>			PERFORMANCE CLASS	<u>G1</u>	
	AMPS	<u>48</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>PERKINS</u>	BUILD NUMBER	<u>GK66045</u>
ENGINE MODEL	<u>403D-15G</u>	SERIAL NUMBER	<u>U503501U</u>
ALTERNATOR MAKE	<u>MECC-MATE</u>	SERIAL NUMBER	<u>A1094950</u>
ALTERNATOR MODEL	<u>EC028-14/14</u>		
CONTROL PANEL(S)	<u>MANUAL 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>80</u>	<u>50.3</u>	<u>231</u>	<u>30.7</u>	<u>7.0</u>	<u>—</u>	<u>—</u>	<u>4.4</u>
standby/ prime+10%	<u>110%</u>	<u>50.0</u>	<u>230</u>	<u>42.2</u>	<u>9.7</u>	<u>81</u>	<u>—</u>	<u>4.1</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>100.2</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>14</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>10-173200</u>
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TESTED BY I. JOHNSON

DATE 01/10/2010