

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

PLANT NUMBER:

EC905/1

CE:

NO

RATED OUTPUT	KVA	<u>1650</u>	RATING CLASSIFICATION	<u>ESP</u>	
	KW	<u>1320</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>400/230</u>		PERFORMANCE CLASS	<u>G1</u>
	AMPS	<u>2382</u>		(AS DEFINED BY ISO 8528-1)	
	HZ	<u>50</u>			
	RPM	<u>1500</u>			
GOVERNOR TYPE	<u>ELECTRONIC</u>	COOLING METHOD	<u>WATERCOOLED</u>		

ENGINE MAKE	<u>PEDAKINS</u>	BUILD NUMBER	<u>DGBM6137</u>
ENGINE MODEL	<u>4012 - 46TAG2A</u>	SERIAL NUMBER	<u>U17527U</u>
ALTERNATOR MAKE	<u>LENOV SUMNER</u>		
ALTERNATOR MODEL	<u>LSA50 - 2LB</u>	SERIAL NUMBER	<u>250894/2</u>
CONTROL PANEL(S)	<u>ANDSONA</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>71</u>	<u>50.0</u>	<u>400</u>	<u>1354</u>	<u>937</u>	<u>—</u>	<u>—</u>	<u>5.1</u> <u>5.3</u>
standby/	<u>100%</u>	<u>50.0</u>	<u>400</u>	<u>1908</u>	<u>1320</u>	<u>78</u> <u>78</u>	<u>—</u>	<u>4.2</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 ISO8528-10)

AMBIENT TEST CONDITIONS		FUEL/OIL USED	
ALTITUDE (M)	<u>Sea Level</u>	FUEL SPEC	<u>BS2869A2</u>
BAROMETRIC PRESSURE (kpa)	<u>100.3</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>12</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>94</u>	LUB OIL SPEC	<u>Multigrade</u>

**WIRING DIAGRAMS:**

ENGINE	<u>213585</u>	CONTROL PANEL(S)	<u>10 - 172600</u>
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TESTED BY

H. Walsh

DATE 24/09/2010

**SGS**

101/52

WITNESSED

24/09/2010

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

PLANT NUMBER: EQ905/2 CE: NO

RATED OUTPUT	KVA	<u>1650</u>	RATING CLASSIFICATION	<u>ESP</u>	
	KW	<u>1320</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>400/230</u>		PERFORMANCE CLASS	<u>G1</u>
	AMPS	<u>2382</u>		(AS DEFINED BY ISO 8528-1)	
	HZ	<u>50</u>			
	RPM	<u>1500</u>			
GOVERNOR TYPE	<u>ELECTRONIC</u>	COOLING METHOD	<u>WATERCOOLED</u>		

ENGINE MAKE	<u>PERRAKINS</u>	BUILD NUMBER	<u>DC-BM6137</u>
ENGINE MODEL	<u>L4012 - 46TAG2A</u>	SERIAL NUMBER	<u>U161144</u>
ALTERNATOR MAKE	<u>LENOX SUMNER</u>		
ALTERNATOR MODEL	<u>LSA50 - 2LB</u>	SERIAL NUMBER	<u>250893/4</u>
CONTROL PANEL(S)	<u>ANDROMAT</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	OIL TEMP	OIL PRESS
						DEG C	DEG C	BAR
load acceptance	<u>71</u>	<u>50.0</u>	<u>400</u>	<u>1354</u>	<u>937</u>	<u>—</u>	<u>—</u>	<u>5.4</u> <u>5.4</u>
standby/	<u>100%</u>	<u>50.0</u>	<u>400</u>	<u>1908</u>	<u>1320</u>	<u>78</u> <u>78</u>	<u>—</u>	<u>4.0</u> <u>4.0</u>

GENERATING SET ENCLOSURE MECHANICAL PROTECTION

IP

AVERAGE SOUND PRESSURE LEVEL (DBA AT 1 M)

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(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>100.5</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>11</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>94</u>	LUB OIL SPEC	<u>Multigrade</u>

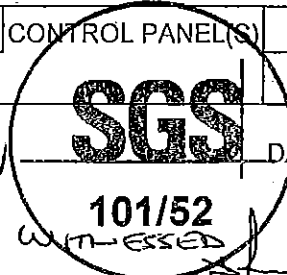
**WIRING DIAGRAMS:**

ENGINE	<u>Z13585</u>	CONTROL PANEL(S)	<u>10 - 17260D</u>
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TESTED BY

I. JOHNSON

DATE 24/09/2010



24/09/2010