

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

PLANT NUMBER: E9803/1 CE: No

RATED OUTPUT	KVA	<u>100</u>	RATING CLASSIFICATION	<u>PRP</u>	
	KW	<u>80</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>380/220</u>		PERFORMANCE CLASS	<u>G1</u>
	AMPS	<u>152</u>			
	HZ	<u>50</u>			
	RPM	<u>1500</u>			
GOVERNOR TYPE			<u>Electronic</u>	COOLING METHOD	<u>WATERCOOLED</u>

ENGINE MAKE	<u>Perkins</u>	BUILD NUMBER	<u>R551437</u>
ENGINE MODEL	<u>1104C-44TAG2</u>	SERIAL NUMBER	<u>U50787SU</u>
ALTERNATOR MAKE	<u>Mecc Alte</u>		
ALTERNATOR MODEL	<u>ECP 34-25k</u>	SERIAL NUMBER	<u>A1088528</u>
CONTROL PANEL(S)	<u>None</u>	SERIAL NUMBER(S)	
SWITCHGEAR		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>75%</u>	<u>500</u>	<u>380</u>	<u>91</u>	<u>60</u>	<u>-</u>	<u>-</u>	<u>4.9</u>
standby/ prime+10%	<u>110%</u>	<u>500</u>	<u>380</u>	<u>134</u>	<u>88</u>		<u>-</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>101.8</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>16</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>94</u>	LUB OIL SPEC	<u>Multigrade</u>

**WIRING DIAGRAMS:**

ENGINE	<u>06-133000</u>	CONTROL PANEL(S)	
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TESTED BY

*H. Wal*

DATE 08/10/2010

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

PLANT NUMBER: E9803/2 CE: 100

RATED OUTPUT	KVA	<u>100</u>	RATING CLASSIFICATION	<u>PRP</u>	
	KW	<u>80</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>380/220</u>		PERFORMANCE CLASS	<u>G1</u>
	AMPS	<u>152</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>Perkins</u>	BUILD NUMBER	<u>R551437</u>
ENGINE MODEL	<u>1104C-44TAG2</u>	SERIAL NUMBER	<u>U507880U</u>
ALTERNATOR MAKE	<u>Meca Alte</u>		
ALTERNATOR MODEL	<u>ECP 34-25/4</u>	SERIAL NUMBER	<u>A1088534</u>
CONTROL PANEL(S)	<u>None</u>	SERIAL NUMBER(S)	
SWITCHGEAR		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>75%</u>	<u>50.0</u>	<u>380</u>	<u>91</u>	<u>60</u>	<u>-</u>	<u>-</u>	<u>5.3</u>
standby/ prime+10%	<u>110%</u>	<u>50.0</u>	<u>380</u>	<u>134</u>	<u>88</u>	<u>-</u>	<u>-</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>101.8</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>16</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>94</u>	LUB OIL SPEC	<u>Multigrade</u>

**WIRING DIAGRAMS:**

ENGINE	<u>06-133000</u>	CONTROL PANEL(S)	
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TESTED BY H. Wall

DATE 08/10/2010