

Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER:

E9771/1

CE:

No

RATED OUTPUT	KVA	<u>250</u>	RATING CLASSIFICATION	<u>PRP</u>	
	KW	<u>200</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>380/220</u>		PERFORMANCE CLASS	<u>G1</u>
	AMPS	<u>380</u>		(AS DEFINED BY ISO 8528-1)	
	HZ	<u>60</u>			
	RPM	<u>1800</u>			
GOVERNOR TYPE	<u>ECM</u>	COOLING METHOD	<u>WATERCOOLED</u>		

ENGINE MAKE	<u>Perkins</u>	BUILD NUMBER	<u>10GHE7004</u>
ENGINE MODEL	<u>1306C-E87TAG6</u>	SERIAL NUMBER	<u>N10A25U</u>
ALTERNATOR MAKE	<u>Mecc Alte</u>		
ALTERNATOR MODEL	<u>ECO 38-14/N4</u>	SERIAL NUMBER	<u>A10A9316</u>
CONTROL PANEL(S)	<u>Autostart</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>36%</u>	<u>50.0</u>	<u>380</u>	<u>109</u>	<u>72</u>	<u>32</u>	<u>-</u>	<u>4.5</u>
standby/ prime+10%	<u>110%</u>	<u>50.0</u>	<u>380</u>	<u>334</u>	<u>220</u>	<u>92</u>	<u>-</u>	<u>3.3</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>101.5</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>20</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>56</u>	LUB OIL SPEC	<u>Multigrade</u>

WIRING DIAGRAMS:

ENGINE	<u>CG-136000</u>	CONTROL PANEL(S)	<u>09-166400</u>
			<u>10-173300</u>

TESTED BY

H. Wal

DATE 29/07/2010

Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER: E9771/2 CE: No

RATED OUTPUT	KVA	250	RATING CLASSIFICATION	PRP	
	KW	200			
	PHASE	3			
	VOLTS	380/220		PERFORMANCE CLASS	G1
	AMPS	380			(AS DEFINED BY ISO 8528-1)
	HZ	50			
	RPM	1500			
GOVERNOR TYPE			ECM	COOLING METHOD	WATERCOOLED

ENGINE MAKE	Perkins	BUILD NUMBER	WGHF7004
ENGINE MODEL	1306C-E87TAG6	SERIAL NUMBER	10 9314
ALTERNATOR MAKE	Meca Alte		
ALTERNATOR MODEL	Eco 38-14 N/4	SERIAL NUMBER	A1093044
CONTROL PANEL(S)	Autostart	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	36%	50.0	380	109	72	36	-	4.4
standby/ prime+10%	110%	50.0	380	234	220	92	-	3.3

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)	Sea Level	FUEL SPEC	BS2869A2
BAROMETRIC PRESSURE (kpa)	101.4	DENSITY	0.84 kg/l
TEMPERATURE (Deg c)	18	CALORIFIC VALUE	42.5 MJ/kg
HUMIDITY (%)	73	LUB OIL SPEC	Multigrade

WIRING DIAGRAMS:

ENGINE	06-136000	CONTROL PANEL(S)	09-166400 10-173300
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TESTED BY

H. Ward

DATE 29/07/2010