

Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER: E973a/1 CE: No

RATED OUTPUT	KVA	20	RATING CLASSIFICATION	PRP	
	KW	16			
	PHASE	3			
	VOLTS	400/230		PERFORMANCE CLASS	G1
	AMPS	29			
	HZ	50			
	RPM	1500			
GOVERNOR TYPE			Mechanical	COOLING METHOD	WATERCOOLED

ENGINE MAKE	Perkins	BUILD NUMBER	GN65732
ENGINE MODEL	404D-22G	SERIAL NUMBER	UA89304T
ALTERNATOR MAKE	Mecc Alte	SERIAL NUMBER	A1083434
ALTERNATOR MODEL	ECO 28-1L/4	SERIAL NUMBER(S)	
CONTROL PANEL(S)	Manual start	SERIAL NUMBER(S)	
SWITCHGEAR		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	80%	50.7	400	18	13	-	-	5.2
standby/ prime+10%	110%	50.0	400	25	18	84	-	4.8

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)	Sea Level	FUEL SPEC	BS2869A2
BAROMETRIC PRESSURE (kpa)	100.4	DENSITY	0.84 kg/l
TEMPERATURE (Deg c)	22	CALORIFIC VALUE	42.5 MJ/kg
HUMIDITY (%)	50	LUB OIL SPEC	Multigrade

WIRING DIAGRAMS:

ENGINE	08-152300	CONTROL PANEL(S)	10-170800
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TESTED BY

H. W. L.

DATE 21/07/2010

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

PLANT NUMBER: E9739/2 CE: No

RATED OUTPUT	KVA	<u>20</u>	RATING CLASSIFICATION	<u>PRP</u>	
	KW	<u>16</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>400/230</u>	PERFORMANCE CLASS	<u>G1</u>	
	AMPS	<u>29</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>CND65732</u>
ENGINE MODEL	<u>404D-22G</u>	SERIAL NUMBER	<u>U988789T</u>
ALTERNATOR MAKE	<u>Mecc Alte</u>		
ALTERNATOR MODEL	<u>ECO 28-1L/4</u>	SERIAL NUMBER	<u>A1083432</u>
CONTROL PANEL(S)	<u>Manual start</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>80%</u>	<u>50.9</u>	<u>400</u>	<u>18</u>	<u>13</u>	<u>-</u>	<u>-</u>	<u>5.2</u>
standby/ prime+10%	<u>110%</u>	<u>50.0</u>	<u>400</u>	<u>25</u>	<u>18</u>	<u>84</u>	<u>-</u>	<u>4.9</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>100.4</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>23</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>47</u>	LUB OIL SPEC	<u>Multigrade</u>

WIRING DIAGRAMS:

ENGINE	<u>08-152300</u>	CONTROL PANEL(S)	<u>10-170800</u>
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TESTED BY H. Ward

DATE 21/07/2010