

Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER:

E8741/1

CE:

NO

RATED OUTPUT	KVA	<u>40</u>	RATING CLASSIFICATION	<u>PRD</u>	
	KW	<u>32</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>400</u>		PERFORMANCE CLASS	<u>61</u>
	AMPS	<u>58</u>			(AS DEFINED BY ISO 8528-1)
	HZ	<u>50</u>			
	RPM	<u>1500</u>			
GOVERNOR TYPE			COOLING METHOD	<u>WATERCOOLED</u>	

ENGINE MAKE	<u>PERKINS</u>	BUILD NUMBER	<u>DK 51435</u>
ENGINE MODEL	<u>1103A-33TG-1</u>	SERIAL NUMBER	<u>U242821U</u>
ALTERNATOR MAKE	<u>MELC-ALTE</u>		
ALTERNATOR MODEL	<u>E1032-3S/4</u>	SERIAL NUMBER	<u>0001342476</u>
CONTROL PANEL(S)	<u>AUTO-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	OIL TEMP	OIL PRESS
						DEG C	DEG C	BAR
load acceptance	<u>90</u>	<u>50.5</u>	<u>400</u>	<u>41.5</u>	<u>28.8</u>	—	—	<u>4.7</u>
standby/ prime+10%	<u>110%</u>	<u>50</u>	<u>400</u>	<u>50.8</u>	<u>35.2</u>	<u>83</u>	—	<u>3.9</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>115</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>15</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>65</u>	LUB OIL SPEC	<u>Multigrade</u>

WIRING DIAGRAMS:

ENGINE	<u>06-130760</u>	CONTROL PANEL(S)	<u>10-170800</u>
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TESTED BY

L. Z...

DATE

30/08/2010

Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER: E8741/2 CE: NO

RATED OUTPUT	KVA	40	RATING CLASSIFICATION	PRD	
	KW	32			
	PHASE	3			
	VOLTS	400		PERFORMANCE CLASS	G1
	AMPS	58			
	HZ	50			
	RPM	1500			
GOVERNOR TYPE			COOLING METHOD	WATERCOOLED	

ENGINE MAKE	PERKINS	BUILD NUMBER	DK51435
ENGINE MODEL	1103A-33T61	SERIAL NUMBER	U243032U
ALTERNATOR MAKE	MECC-ALTE		
ALTERNATOR MODEL	ELO 32-3S/4	SERIAL NUMBER	0001342423
CONTROL PANEL(S)	AUTO-START	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	90	50,4	400	41,5	28,8	—	—	4,9
standby/ prime+10%	110%	50	400	50,8	35,2	83	—	4,4

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)	Sea Level	FUEL SPEC	BS2869A2
BAROMETRIC PRESSURE (kpa)	1011	DENSITY	0.84 kg/l
TEMPERATURE (Deg c)	10	CALORIFIC VALUE	42.5 MJ/kg
HUMIDITY (%)	78	LUB OIL SPEC	Multigrade

WIRING DIAGRAMS:

ENGINE	06-130700	CONTROL PANEL(S)	10-170800
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TESTED BY

L. Zammit

DATE

31/08/2010