

Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER: E8742/1 CE: ND

RATED OUTPUT	KVA	60	RATING CLASSIFICATION	PRP	
	KW	48			
	PHASE	3			
	VOLTS	400		PERFORMANCE CLASS	61
	AMPS	86			
	HZ	50			
	RPM	1500			
GOVERNOR TYPE			COOLING METHOD	WATERCOOLED	

ENGINE MAKE	PERKINS	BUILD NUMBER	DK51436
ENGINE MODEL	1103 A-33T62	SERIAL NUMBER	11243814U
ALTERNATOR MAKE	MECC - ALTE		
ALTERNATOR MODEL	ECO 32-2L/4	SERIAL NUMBER	A1082780
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	85	50	401	58.8	40.8	—	—	4.8
standby/ prime+10%	110%	50	400	76.2	52.8	85	—	3.9

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)	1022	DENSITY	0.84 kg/l
TEMPERATURE (Deg c)	18	CALORIFIC VALUE	42.5 MJ/kg
HUMIDITY (%)	64	LUB OIL SPEC	Multigrade

WIRING DIAGRAMS:

ENGINE		CONTROL PANEL(S)	
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TESTED BY
L. Zamboni

DATE
02/08/2010

Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER:

EQ742/2

CE:

NO

RATED OUTPUT	KVA	<u>60</u>	RATING CLASSIFICATION	<u>PNP</u>	
	KW	<u>48</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>400/230</u>		PERFORMANCE CLASS	<u>G1</u>
	AMPS	<u>86</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>DK51436</u>
ENGINE MODEL	<u>1103A-33TG2</u>	SERIAL NUMBER	<u>U7239244</u>
ALTERNATOR MAKE	<u>WBECC-ALTB</u>	SERIAL NUMBER	<u>A1092882</u>
ALTERNATOR MODEL	<u>EC032-2L4</u>	SERIAL NUMBER(S)	
CONTROL PANEL(S)	<u>MULTIPL SMART</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>85</u>	<u>50.7</u>	<u>400</u>	<u>58.8</u>	<u>40.8</u>	<u>—</u>	<u>—</u>	<u>4.9</u>
standby/prime+10%	<u>110%</u>	<u>50.0</u>	<u>400</u>	<u>76.2</u>	<u>52.8</u>	<u>84</u>	<u>—</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>100.9</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>19</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>64</u>	LUB OIL SPEC	<u>Multigrade</u>

WIRING DIAGRAMS:

ENGINE		CONTROL PANEL(S)	

TESTED BY

I. JOHNSON

DATE

06/09/2010