

Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER: E8741/1 CE: NO

RATED OUTPUT	KVA	40	RATING CLASSIFICATION	PRD	
	KW	32			
	PHASE	3			
	VOLTS	400		PERFORMANCE CLASS	6-1
	AMPS	58			(AS DEFINED BY ISO 8528-1)
	HZ	50			
	RPM	1500			
GOVERNOR TYPE			COOLING METHOD	WATERCOOLED	

ENGINE MAKE	PERKINS	BUILD NUMBER	DK 51435
ENGINE MODEL	1103A-33TG-1	SERIAL NUMBER	U242821U
ALTERNATOR MAKE	MELC-ALTE		
ALTERNATOR MODEL	E1032-3S/4	SERIAL NUMBER	0001342426
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	OIL TEMP	OIL PRESS
						DEG C	DEG C	BAR
load acceptance	90	50.5	400	41.5	28.8	—	—	4.7
standby/ prime+10%	110%	50	400	50.8	35.2	83	—	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)	115	DENSITY	0.84 kg/l
TEMPERATURE (Deg c)	15	CALORIFIC VALUE	42.5 MJ/kg
HUMIDITY (%)	65	LUB OIL SPEC	Multigrade

WIRING DIAGRAMS:			
ENGINE	06-130760	CONTROL PANEL(S)	10-170800

TESTED BY L. Zumb... DATE 30/08/2010

Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER: E8741/2 CE: ND

RATED OUTPUT	KVA	40	RATING CLASSIFICATION	PRD	
	KW	32			
	PHASE	3			
	VOLTS	400		PERFORMANCE CLASS	G1
	AMPS	58			(AS DEFINED BY ISO 8528-1)
	HZ	50			
	RPM	1500			
GOVERNOR TYPE			COOLING METHOD		WATERCOOLED

ENGINE MAKE	PERKINS	BUILD NUMBER	DK57435
ENGINE MODEL	1103A-33T61	SERIAL NUMBER	U243032U
ALTERNATOR MAKE	MECC-ALTE	SERIAL NUMBER	0001342423
ALTERNATOR MODEL	ECO 32-3S/4	SERIAL NUMBER(S)	
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)

(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