

Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER: E9702/1 CE: No

RATED OUTPUT	KVA	300	RATING CLASSIFICATION	PRP	
	KW	240			
	PHASE	3			
	VOLTS	400/230		PERFORMANCE CLASS	G1
	AMPS	434			
	HZ	50			
RPM	1500				
GOVERNOR TYPE			ECM	COOLING METHOD	WATERCOOLED

ENGINE MAKE	Perkins	BUILD NUMBER	TG BFS112
ENGINE MODEL	2206A-E3TAG2	SERIAL NUMBER	U119564
ALTERNATOR MAKE	Marec Alte	SERIAL NUMBER	A1093119
ALTERNATOR MODEL	ECO 38-3LN/4	SERIAL NUMBER(S)	
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	50%	50.0	400	173	120	56	-	4.1
standby/ prime+10%	110%	50.0	400	382	264	87	-	2.7

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)	100.2	DENSITY	0.84 kg/l
TEMPERATURE (Deg c)	19	CALORIFIC VALUE	42.5 MJ/kg
HUMIDITY (%)	60	LUB OIL SPEC	Multigrade

WIRING DIAGRAMS:

ENGINE	2000 DIAGRAM	CONTROL PANEL(S)	09-162200
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TESTED BY

H. Wal

DATE 16/07/2010

Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER: E 9702/2 CE: No

RATED OUTPUT	KVA	300	RATING CLASSIFICATION	PRP	
	KW	240			
	PHASE	3			
	VOLTS	400/230		PERFORMANCE CLASS	G1
	AMPS	434			
	HZ	50			
	RPM	1500			
GOVERNOR TYPE			ECM		
COOLING METHOD			WATERCOOLED		

ENGINE MAKE	Perkins	BUILD NUMBER	TGRFS112
ENGINE MODEL	2206A-E13TAG2	SERIAL NUMBER	U11993U
ALTERNATOR MAKE	Mecc Alte		
ALTERNATOR MODEL	ECO 38-3LN	SERIAL NUMBER	A1093124
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	50%	50.0	400	173	120	45	-	4.1
standby/prime+10%	110%	50.0	400	382	264	88	-	2.7

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)	100.4	DENSITY	0.84 kg/l
TEMPERATURE (Deg c)	21	CALORIFIC VALUE	42.5 MJ/kg
HUMIDITY (%)	53	LUB OIL SPEC	Multigrade

WIRING DIAGRAMS:	
ENGINE	2000 Diagram
CONTROL PANEL(S)	09-162200

TESTED BY *H. Wal*

DATE 16/07/2010