

Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER:

E91690/1

CE:

NO

RATED OUTPUT	KVA	<u>500</u>	RATING CLASSIFICATION	<u>PNP</u>	
	KW	<u>400</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>380/220</u>		PERFORMANCE CLASS	<u>G1</u>
	AMPS	<u>760</u>		(AS DEFINED BY ISO 8528-1)	
	HZ	<u>50</u>			
	RPM	<u>1500</u>			
GOVERNOR TYPE	<u>E.C.M.</u>	COOLING METHOD	<u>WATERCOOLED</u>		

ENGINE MAKE	<u>PERKINS</u>	BUILD NUMBER	<u>MGBFS120</u>
ENGINE MODEL	<u>2506A-B15TA2</u>	SERIAL NUMBER	<u>U14514U</u>
ALTERNATOR MAKE	<u>MECC-ALTE</u>		
ALTERNATOR MODEL	<u>EC040-3S</u>	SERIAL NUMBER	<u>0001416590</u>
CONTROL PANEL(S)	<u>NONE</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>60</u>	<u>50.0</u>	<u>380</u>	<u>365</u>	<u>240</u>	<u>—</u>	<u>—</u>	<u>5.4</u>
standby/ prime+10%	<u>110%</u>	<u>50.0</u>	<u>380</u>	<u>669</u>	<u>440</u>	<u>89</u>	<u>—</u>	<u>4.4</u>

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)	<u>Sea Level</u>	FUEL SPEC	<u>BS2869A2</u>
BAROMETRIC PRESSURE (kpa)	<u>101.0</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>16</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>82</u>	LUB OIL SPEC	<u>Multigrade</u>

WIRING DIAGRAMS:

ENGINE		CONTROL PANEL(S)	

TESTED BY

I. JOHNSON

DATE

22/07/2010

Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER:

E91690/2

CE:

NO

RATED OUTPUT	KVA	500	RATING CLASSIFICATION	PMP	
	KW	400			
	PHASE	3			
	VOLTS	380/220		PERFORMANCE CLASS	C1
	AMPS	766			
	HZ	50			
	RPM	1500			
GOVERNOR TYPE			COOLING METHOD	WATERCOOLED	

ENGINE MAKE	PENNINGS	BUILD NUMBER	MGBPS120
ENGINE MODEL	2506A-B15742	SERIAL NUMBER	U154184
ALTERNATOR MAKE	MECC-ALTE	SERIAL NUMBER	000146589
ALTERNATOR MODEL	ECOLOD-3S		
CONTROL PANEL(S)	NONE	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	60	50.0	380	365	240	—	—	5.4
standby/ prime+10%	110%	50.0	380	669	440	89	—	4.5

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)	101.2	DENSITY	0.84 kg/l
TEMPERATURE (Deg c)	18	CALORIFIC VALUE	42.5 MJ/kg
HUMIDITY (%)	73	LUB OIL SPEC	Multigrade

WIRING DIAGRAMS:

ENGINE		CONTROL PANEL(S)	

TESTED BY

I. JOHNSON

DATE

22/07/2010

Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER: E91690/3 CE: NO

RATED OUTPUT	KVA	500	RATING CLASSIFICATION	PMP	
	KW	400			
	PHASE	3			
	VOLTS	380/220		PERFORMANCE CLASS	G1
	AMPS	760			(AS DEFINED BY ISO 8528-1)
	HZ	50			
	RPM	1500			
GOVERNOR TYPE			E.C.M.		
			COOLING METHOD	WATERCOOLED	

ENGINE MAKE	PERRINS	BUILD NUMBER	MGPFS120
ENGINE MODEL	2506A-B15TA#2	SERIAL NUMBER	U154164
ALTERNATOR MAKE	MECC-ALTE	SERIAL NUMBER	0001416588
ALTERNATOR MODEL	ECOLOD-3S	SERIAL NUMBER(S)	
CONTROL PANEL(S)	NONE	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	60	50.0	380	365	240	—	—	5.4
standby/prime+10%	110%	50.0	380	669	440	80	—	4.5

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)	101.2	DENSITY	0.84 kg/l
TEMPERATURE (Deg c)	17	CALORIFIC VALUE	42.5 MJ/kg
HUMIDITY (%)	82	LUB OIL SPEC	Multigrade

WIRING DIAGRAMS:			
ENGINE		CONTROL PANEL(S)	

TESTED BY I. JOHNSON DATE 22/07/2010