

Generating Set Functional Test Report
In accordance with ISO 8528 - 6 2005

PLANT NUMBER: E9730/1 CE: No

RATED OUTPUT	KVA	350	RATING CLASSIFICATION	PRP	
	KW	280			
	PHASE	3			
	VOLTS	415/240		PERFORMANCE CLASS	G1
	AMPS	487			(AS DEFINED BY ISO 8528-1)
	HZ	50			
	RPM	1500			
GOVERNOR TYPE			ECM	COOLING METHOD	WATERCOOLED

ENGINE MAKE	Perkins	BUILD NUMBER	TGBF2030
ENGINE MODEL	2206A-E13TAG2	SERIAL NUMBER	U19174T
ALTERNATOR MAKE	Stamford	SERIAL NUMBER	0269576/024
ALTERNATOR MODEL	HGT 444E		
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	415	195	140	38	—	4.1
standby/ prime+10%	110%	50.0	415	429	308	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)	101.5	DENSITY	0.84 kg/l
TEMPERATURE (Deg c)	22	CALORIFIC VALUE	42.5 MJ/kg
HUMIDITY (%)	57	LUB OIL SPEC	Multigrade

WIRING DIAGRAMS:

ENGINE	2000 Diagram	CONTROL PANEL(S)	09-162200
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TESTED BY *H. Wal*

DATE 27/07/2010

Generating Set Functional Test Report
In accordance with ISO 8528 - 6 2005

PLANT NUMBER: E9730/2 CE: No

RATED OUTPUT	KVA	<u>350</u>	RATING CLASSIFICATION	<u>PRP</u>	
	KW	<u>280</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>415/240</u>		PERFORMANCE CLASS	<u>G1</u>
	AMPS	<u>487</u>		(AS DEFINED BY ISO 8528-1)	
	HZ	<u>50</u>			
	RPM	<u>1500</u>			
GOVERNOR TYPE	<u>ECM</u>	COOLING METHOD	<u>WATERCOOLED</u>		

ENGINE MAKE	<u>Perkins</u>	BUILD NUMBER	<u>16BF2030</u>
ENGINE MODEL	<u>2206A-E13TAG2</u>	SERIAL NUMBER	<u>U191735</u>
ALTERNATOR MAKE	<u>Stamferd</u>		
ALTERNATOR MODEL	<u>HCI 444 E</u>	SERIAL NUMBER	<u>0269576/002</u>
CONTROL PANEL(S)	<u>Autostart</u>	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	<u>50%</u>	<u>500</u>	<u>415</u>	<u>195</u>	<u>140</u>	<u>36</u>	<u>-</u>	<u>4.1</u>
standby/ prime+10%	<u>110%</u>	<u>500</u>	<u>415</u>	<u>429</u>	<u>308</u>	<u>88</u>	<u>-</u>	<u>2.6</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>101.6</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>17</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>77</u>	LUB OIL SPEC	<u>Multigrade</u>

WIRING DIAGRAMS:	
ENGINE	<u>2000 Diagram</u>
CONTROL PANEL(S)	<u>09-162200</u>

TESTED BY H. Wal

DATE 28/07/2010