

Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER: E9901/1 CE: NO

RATED OUTPUT	KVA	500	RATING CLASSIFICATION	PMP
	KW	400		
	PHASE	3		
	VOLTS	415/240	PERFORMANCE CLASS	G1
	AMPS	696		
	HZ	50		
	RPM	1500	(AS DEFINED BY ISO 8528-1)	
GOVERNOR TYPE	E.C.U.			

ENGINE MAKE	PERKINS	BUILD NUMBER	M68FS120
ENGINE MODEL	2506A-B15PAZ	SERIAL NUMBER	U17761U
ALTERNATOR MAKE	MEL - ATE		
ALTERNATOR MODEL	E0040-3S/4	SERIAL NUMBER	000/420605
CONTROL PANEL(S)	MANUAL 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	60	50.0	415	334	240	—	—	5.4
standby/prime+10%	110%	50.0	415	613	440	89	—	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)	101.5	DENSITY	0.84 kg/l
TEMPERATURE (Deg c)	13	CALORIFIC VALUE	42.5 MJ/kg
HUMIDITY (%)	100	LUB OIL SPEC	Multigrade

WIRING DIAGRAMS:

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

I. JOHNSON

DATE

28/09/2010

Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER:

E9901/2

CE:

NO

RATED OUTPUT	KVA	<u>500</u>	RATING CLASSIFICATION	<u>Prp</u>	
	KW	<u>400</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>415/240</u>		PERFORMANCE CLASS	<u>C1</u>
	AMPS	<u>696</u>		(AS DEFINED BY ISO 8528-1)	
	HZ	<u>50</u>			
	RPM	<u>1500</u>			
GOVERNOR TYPE		<u>E.C.U.</u>	COOLING METHOD	<u>WATERCOOLED</u>	

ENGINE MAKE	<u>PENKINS</u>	BUILD NUMBER	<u>WCBFS170</u>
ENGINE MODEL	<u>2506A-B15M2</u>	SERIAL NUMBER	<u>U16810U</u>
ALTERNATOR MAKE	<u>WELL-ALTB</u>		
ALTERNATOR MODEL	<u>EC060-3S/4</u>	SERIAL NUMBER	<u>0001420604</u>
CONTROL PANEL(S)	<u>MANUAL START</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>415</u>	<u>334</u>	<u>240</u>	<u>—</u>	<u>—</u>	<u>5.4</u>
standby/ prime+10%	<u>110%</u>	<u>50.0</u>	<u>415</u>	<u>613</u>	<u>440</u>	<u>87</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>101.6</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>14</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>94</u>	LUB OIL SPEC	<u>Multigrade</u>

WIRING DIAGRAMS:

ENGINE	<u>2500 Diagram</u>	CONTROL PANEL(S)	<u>09-162200</u>
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TESTED BY

I. JOHNSON

DATE

28/09/2010