

Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER: E9923/1 CE: No

RATED OUTPUT	KVA	60	RATING CLASSIFICATION	PRP	
	KW	48			
	PHASE	3			
	VOLTS	400/230		PERFORMANCE CLASS	G1
	AMPS	87			(AS DEFINED BY ISO 8528-1)
	HZ	50			
	RPM	1500			
GOVERNOR TYPE	Mechanical		COOLING METHOD	WATERCOOLED	

ENGINE MAKE	Perkins	BUILD NUMBER	DKS1436
ENGINE MODEL	1103A-33TG2	SERIAL NUMBER	U249426U
ALTERNATOR MAKE	Stamferd	SERIAL NUMBER	0269481/001
ALTERNATOR MODEL	UCI 224 E		
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	85%	51.3	400	59	41	-	-	5.2
standby/ prime+10%	110%	50.0	400	76	53	85	-	4.1

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)	102.9	DENSITY	0.84 kg/l
TEMPERATURE (Deg c)	6	CALORIFIC VALUE	42.5 MJ/kg
HUMIDITY (%)	70	LUB OIL SPEC	Multigrade

WIRING DIAGRAMS:

ENGINE	06-130700	CONTROL PANEL(S)	10-170800
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TESTED BY

H. Wal

DATE 25/10/2010

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

PLANT NUMBER: Eq923/2 CE: No

RATED OUTPUT	KVA	<u>60</u>	RATING CLASSIFICATION	<u>PRP</u>
	KW	<u>48</u>		
	PHASE	<u>3</u>		
	VOLTS	<u>400/230</u>	PERFORMANCE CLASS	<u>G1</u>
	AMPS	<u>87</u>		
	HZ	<u>50</u>		
	RPM	<u>1500</u>	(AS DEFINED BY ISO 8528-1)	
GOVERNOR TYPE	<u>Mechanical</u>		COOLING METHOD	<u>WATERCOOLED</u>

ENGINE MAKE	<u>Perkins</u>	BUILD NUMBER	<u>JKS1436</u>
ENGINE MODEL	<u>1103A-33TG2</u>	SERIAL NUMBER	<u>U249461U</u>
ALTERNATOR MAKE	<u>Stamford</u>		
ALTERNATOR MODEL	<u>UCI 224E</u>	SERIAL NUMBER	<u>0269481/07</u>
CONTROL PANEL(S)	<u>Manual start</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>85%</u>	<u>50.8</u>	<u>400</u>	<u>59</u>	<u>4.1</u>	<u>-</u>	<u>-</u>	<u>4.8</u>
standby/prime+10%	<u>110%</u>	<u>50.0</u>	<u>400</u>	<u>76</u>	<u>5.3</u>	<u>85</u>	<u>-</u>	<u>4.2</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>102.8</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>10</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>50</u>	LUB OIL SPEC	<u>Multigrade</u>

WIRING DIAGRAMS:	
ENGINE <u>06-130700</u>	CONTROL PANEL(S) <u>10-170800</u>

TESTED BY H. Wu

DATE 25/10/2010