

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

PLANT NUMBER:

E9672/1

CE:

NO

RATED OUTPUT	KVA	<u>11.5</u>	RATING CLASSIFICATION	<u>Prp</u>	
	KW	<u>9.2</u>			
	PHASE	<u>1</u>			
	VOLTS	<u>230</u>		PERFORMANCE CLASS	<u>G1</u>
	AMPS	<u>50</u>		(AS DEFINED BY ISO 8528-1)	
	HZ	<u>50</u>			
	RPM	<u>1500</u>			
GOVERNOR TYPE	<u>MECHANICAL</u>	COOLING METHOD	<u>WATERCOOLED</u>		

ENGINE MAKE	<u>PENKINS</u>	BUILD NUMBER	<u>GK65497</u>
ENGINE MODEL	<u>L03D-15G</u>	SERIAL NUMBER	<u>U594127T</u>
ALTERNATOR MAKE	<u>STANFORD</u>		
ALTERNATOR MODEL	<u>BC2184E</u>	SERIAL NUMBER	<u>0157095/009</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>80</u>	<u>50.5</u>	<u>231</u>	<u>32</u>	<u>7.3</u>	<u>—</u>	<u>—</u>	<u>5.1</u>
standby/ prime+10%	<u>110%</u>	<u>50.0</u>	<u>230</u>	<u>44</u>	<u>10.1</u>	<u>82</u>	<u>—</u>	<u>4.8</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>99.7</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>18</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>83</u>	LUB OIL SPEC	<u>Multigrade</u>

WIRING DIAGRAMS:

ENGINE	<u>08-152300</u>	CONTROL PANEL(S)	<u>10-170700</u>
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TESTED BY

I. JOHNSON

DATE 15/07/2010

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In accordance with ISO 8528 - 6 2005

PLANT NUMBER:

E9672/2

CE:

NO

RATED OUTPUT	KVA	11.5	RATING CLASSIFICATION	PMP		
	KW	9.2				
	PHASE	1				
	VOLTS	230	PERFORMANCE CLASS	G1		
	AMPS	50			(AS DEFINED BY ISO 8528-1)	
	HZ	50				
	RPM	1500				
GOVERNOR TYPE	MECHANICAL		COOLING METHOD	WATERCOOLED		

ENGINE MAKE	PERKINS	BUILD NUMBER	G165597
ENGINE MODEL	403D - 15G	SERIAL NUMBER	U596490T
ALTERNATOR MAKE	SPRANFORD	SERIAL NUMBER	0252095/004
ALTERNATOR MODEL	BC218LE		
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	80	50.5	231	32	7.3	—	—	5.1
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