

Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER:

E9694/1

CE:

NO

RATED OUTPUT	KVA	<u>1500</u>	RATING CLASSIFICATION	<u>P1P</u>	
	KW	<u>1200</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>400/230</u>		PERFORMANCE CLASS	<u>G1</u>
	AMPS	<u>2165</u>			
	HZ	<u>50</u>			
	RPM	<u>1500</u>			
GOVERNOR TYPE			COOLING METHOD	<u>WATERCOOLED</u>	

ENGINE MAKE	<u>PERKINS</u>	BUILD NUMBER	<u>D5M6137</u>
ENGINE MODEL	<u>4012-46TAG2A</u>	SERIAL NUMBER	<u>U15711U</u>
ALTERNATOR MAKE	<u>MANELI</u>	SERIAL NUMBER	<u>MX24156</u>
ALTERNATOR MODEL	<u>MJB450LA4</u>	SERIAL NUMBER(S)	
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>71</u>	<u>50.0</u>	<u>400</u>	<u>1230</u>	<u>952</u>	<u>—</u>	<u>—</u>	<u>5.6</u>
standby/ prime+10%	<u>110%</u>	<u>50.0</u>	<u>400</u>	<u>1905</u>	<u>1320</u>	<u>73</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>101.0</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>15</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>94</u>	LUB OIL SPEC	<u>Multigrade</u>

WIRING DIAGRAMS:

ENGINE	<u>10-168300</u>	CONTROL PANEL(S)	<u>TEEM BOX</u>
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TESTED BY

I. JOHNSON

DATE

31/07/2010

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

PLANT NUMBER: EG694/2 CE: NO

RATED OUTPUT	KVA	<u>1500</u>	RATING CLASSIFICATION	<u>PRP</u>			
	KW	<u>1200</u>					
	PHASE	<u>3</u>					
	VOLTS	<u>400/230</u>			PERFORMANCE CLASS	<u>G1</u>	
	AMPS	<u>2165</u>					(AS DEFINED BY ISO 8528-1)
	HZ	<u>50</u>					
	RPM	<u>1500</u>					
GOVERNOR TYPE	<u>ELECTRONIC</u>	COOLING METHOD	<u>WATERCOOLED</u>				

ENGINE MAKE	<u>PERKINS</u>	BUILD NUMBER	<u>DEBAM 6137</u>
ENGINE MODEL	<u>4012-46TAG2A</u>	SERIAL NUMBER	<u>U15778U</u>
ALTERNATOR MAKE	<u>MARLBIZ</u>		
ALTERNATOR MODEL	<u>MTB450LA4</u>	SERIAL NUMBER	<u>MX24155</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>71</u>	<u>50.0</u>	<u>400</u>	<u>1230</u>	<u>952</u>	<u>—</u>	<u>—</u>	<u>5.4</u>
standby/prime+10%	<u>110%</u>	<u>50.0</u>	<u>400</u>	<u>1905</u>	<u>1320</u>	<u>75</u>	<u>—</u>	<u>4.6</u>

GENERATING SET ENCLOSURE MECHANICAL PROTECTION

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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>18</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>73</u>	LUB OIL SPEC	<u>Multigrade</u>

WIRING DIAGRAMS:

ENGINE	<u>10-168300</u>	CONTROL PANEL(S)	<u>TECH BOX</u>
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TESTED BY

I. JOHNSON

DATE

02/08/2010

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

PLANT NUMBER:

E9694/3

CE:

NO

RATED OUTPUT	KVA	<u>1500</u>	RATING CLASSIFICATION	<u>PP</u>	
	KW	<u>1200</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>400/230</u>		PERFORMANCE CLASS	<u>C1</u>
	AMPS	<u>2165</u>		(AS DEFINED BY ISO.8528-1)	
	HZ	<u>50</u>			
	RPM	<u>1500</u>			
GOVERNOR TYPE	<u>ELECTRONIC</u>		COOLING METHOD	<u>WATERCOOLED</u>	

ENGINE MAKE	<u>PERKINS</u>	BUILD NUMBER	<u>DGRM 3256</u>
ENGINE MODEL	<u>4012-46TAG2A</u>	SERIAL NUMBER	<u>U10734T</u>
ALTERNATOR MAKE	<u>MANELLI</u>		
ALTERNATOR MODEL	<u>MJB450LA4</u>	SERIAL NUMBER	<u>MX24157</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>71</u>	<u>50.0</u>	<u>400</u>	<u>1230</u>	<u>952</u>	<u>—</u>	<u>—</u>	<u>6.0</u>
standby/ prime+10%	<u>110%</u>	<u>50.0</u>	<u>400</u>	<u>1905</u>	<u>1320</u>	<u>74</u>	<u>—</u>	<u>6.4</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>101.3</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>18</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>59</u>	LUB OIL SPEC	<u>Multigrade</u>

WIRING DIAGRAMS:

ENGINE	<u>10-168300</u>	CONTROL PANEL(S)	<u>TEEM BOX</u>
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TESTED BY

I. JOHNSON

DATE

03/08/2010