

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

PLANT NUMBER:

E9893/1

CE:

No

RATED OUTPUT	KVA	<u>100</u>	RATING CLASSIFICATION	<u>PRP</u>	
	KW	<u>80</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>400/230</u>		PERFORMANCE CLASS	<u>G1</u>
	AMPS	<u>146</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>R551437</u>
ENGINE MODEL	<u>1104C-44TAG2</u>	SERIAL NUMBER	<u>US14628U</u>
ALTERNATOR MAKE	<u>Mecc Alte</u>	SERIAL NUMBER	<u>0001391067</u>
ALTERNATOR MODEL	<u>ECP 34-2S/4</u>	SERIAL NUMBER(S)	
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>75%</u>	<u>50.0</u>	<u>400</u>	<u>87</u>	<u>60</u>	<u>—</u>	<u>—</u>	<u>5.3</u>
standby/ prime+10%	<u>110%</u>	<u>50.0</u>	<u>400</u>	<u>127</u>	<u>88</u>	<u>85</u>	<u>—</u>	<u>3.9</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>101.9</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>17</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>72</u>	LUB OIL SPEC	<u>Multigrade</u>

WIRING DIAGRAMS:

ENGINE	<u>06-133000</u>	CONTROL PANEL(S)	<u>10-170300</u>
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TESTED BY

H. Wal

DATE 07/10/2010

Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER:

E9893/2

CE:

No

RATED OUTPUT	KVA	<u>100</u>	RATING CLASSIFICATION	<u>PRP</u>	
	KW	<u>80</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>400/230</u>		PERFORMANCE CLASS	<u>G1</u>
	AMPS	<u>146</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>RSS1437</u>
ENGINE MODEL	<u>1104C-44TAG2</u>	SERIAL NUMBER	<u>U514626U</u>
ALTERNATOR MAKE	<u>Mecc Alte</u>	SERIAL NUMBER	<u>0001391068</u>
ALTERNATOR MODEL	<u>ECP 34-2S/4</u>	SERIAL NUMBER(S)	
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>75%</u>	<u>50.0</u>	<u>400</u>	<u>87</u>	<u>60</u>	<u>—</u>	<u>—</u>	<u>6.0</u>
standby/ prime+10%	<u>110%</u>	<u>50.0</u>	<u>400</u>	<u>127</u>	<u>88</u>	<u>84</u>	<u>—</u>	<u>4.6</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>101.9</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>17</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>72</u>	LUB OIL SPEC	<u>Multigrade</u>

WIRING DIAGRAMS:

ENGINE	<u>06-133000</u>	CONTROL PANEL(S)	<u>10-170300</u>
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TESTED BY

H. Wal

DATE 07/10/2010

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

PLANT NUMBER: E9893/3 CE: No

RATED OUTPUT	KVA	<u>100</u>	RATING CLASSIFICATION	<u>PRP</u>	
	KW	<u>80</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>400/230</u>		PERFORMANCE CLASS	<u>G1</u>
	AMPS	<u>146</u>			
	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>R551437</u>
ENGINE MODEL	<u>1104C-44TAG2</u>	SERIAL NUMBER	<u>U5154434</u>
ALTERNATOR MAKE	<u>Mecc Alte</u>		
ALTERNATOR MODEL	<u>ECP 34-2S/4</u>	SERIAL NUMBER	<u>0001391053</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>75%</u>	<u>50.0</u>	<u>400</u>	<u>87</u>	<u>60</u>	<u>—</u>	<u>—</u>	<u>6.4</u>
standby/prime+10%	<u>110%</u>	<u>50.0</u>	<u>400</u>	<u>127</u>	<u>88</u>	<u>85</u>	<u>—</u>	<u>4.5</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>101.9</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>18</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>68</u>	LUB OIL SPEC	<u>Multigrade</u>

WIRING DIAGRAMS:

ENGINE	<u>06-133000</u>	CONTROL PANEL(S)	<u>10-170200</u>
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TESTED BY H. Wall

DATE 07/10/2010

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

PLANT NUMBER: E9893/4 CE: No

RATED OUTPUT	KVA	<u>100</u>	RATING CLASSIFICATION	<u>PRP</u>		
	KW	<u>80</u>				
	PHASE	<u>3</u>				
	VOLTS	<u>400/230</u>		PERFORMANCE CLASS	<u>G1</u>	
	AMPS	<u>146</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>R551437</u>
ENGINE MODEL	<u>1104C-44TAG2</u>	SERIAL NUMBER	<u>U5146524</u>
ALTERNATOR MAKE	<u>Mecc Alte</u>	SERIAL NUMBER	<u>0001391055</u>
ALTERNATOR MODEL	<u>ECP 34-2S/4</u>	SERIAL NUMBER(S)	
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>75%</u>	<u>50.0</u>	<u>400</u>	<u>87</u>	<u>60</u>	<u>-</u>	<u>-</u>	<u>5.6</u>
standby/prime+10%	<u>110%</u>	<u>50.0</u>	<u>400</u>	<u>127</u>	<u>88</u>	<u>84</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>101.8</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>17</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>72</u>	LUB OIL SPEC	<u>Multigrade</u>

WIRING DIAGRAMS:

ENGINE	<u>06-133000</u>	CONTROL PANEL(S)	<u>10-170300</u>
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TESTED BY H. W. L.

DATE 07/10/2010