

Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER: E877011 CE: NO

RATED OUTPUT	KVA	60	RATING CLASSIFICATION	PRD	
	KW	48			
	PHASE	3			
	VOLTS	380		PERFORMANCE CLASS	61
	AMPS	81			
	HZ	50			
	RPM	1500			
GOVERNOR TYPE			COOLING METHOD	WATERCOOLED	

ENGINE MAKE	PERKINS	BUILD NUMBER	DK 514.36
ENGINE MODEL	1103A-33T62	SERIAL NUMBER	U244345U
ALTERNATOR MAKE	MECC - ALTE		
ALTERNATOR MODEL	ECO 32-2L14	SERIAL NUMBER	A108276Z
CONTROL PANEL(S)	AUTO-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	50.5	380	62	40.8	—	—	4.8
standby/ prime+10%	110%	50	380	80.2	52.8	23	—	4.2

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)	1010	DENSITY	0.84 kg/l
TEMPERATURE (Deg c)	17	CALORIFIC VALUE	42.5 MJ/kg
HUMIDITY (%)	68	LUB OIL SPEC	Multigrade

WIRING DIAGRAMS:

ENGINE	06-130700	CONTROL PANEL(S)	16-170800
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TESTED BY L. Zuercher

DATE 31/08/2010

Generating Set Functional Test Report
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PLANT NUMBER: ES770/2 CE: NO

RATED OUTPUT	KVA	<u>60</u>	RATING CLASSIFICATION	<u>PRD</u>	
	KW	<u>48</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>380</u>		PERFORMANCE CLASS.	<u>6.1</u>
	AMPS	<u>84</u>		(AS DEFINED BY ISO 8528-1)	
	HZ	<u>50</u>			
	RPM	<u>1500</u>			
GOVERNOR TYPE			COOLING METHOD	<u>WATERCOOLED</u>	

ENGINE MAKE	<u>PERKINS</u>	BUILD NUMBER	<u>DK 51436</u>
ENGINE MODEL	<u>1103A - 33TG2</u>	SERIAL NUMBER	<u>U244608U</u>
ALTERNATOR MAKE	<u>MELC - ALTE</u>		
ALTERNATOR MODEL	<u>ECO 32 - 2L/4</u>	SERIAL NUMBER	<u>A1092766</u>
CONTROL PANEL(S)	<u>AUTO - 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>381</u>	<u>62</u>	<u>40,8</u>	<u>-</u>	<u>-</u>	<u>5,0</u>
standby/ prime+10%	<u>110%</u>	<u>50</u>	<u>380</u>	<u>80,2</u>	<u>52,8</u>	<u>84</u>	<u>-</u>	<u>4,0</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>1010</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>17</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>60</u>	LUB OIL SPEC	<u>Multigrade</u>

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

TESTED BY L. J. ...

DATE 31/08/2010

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

PLANT NUMBER: ES77013 CE: NO

RATED OUTPUT	KVA	<u>60</u>	RATING CLASSIFICATION	<u>PRP</u>	
	KW	<u>48</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>380</u>		PERFORMANCE CLASS	<u>6.1</u>
	AMPS	<u>91</u>		(AS DEFINED BY ISO 8528-1)	
	HZ	<u>50</u>			
	RPM	<u>1500</u>			
GOVERNOR TYPE			COOLING METHOD	<u>WATERCOOLED</u>	

ENGINE MAKE	<u>PERKINS</u>	BUILD NUMBER	<u>DK51436</u>
ENGINE MODEL	<u>1103A-33T62</u>	SERIAL NUMBER	<u>12443600</u>
ALTERNATOR MAKE	<u>MECC - ALTE</u>		
ALTERNATOR MODEL	<u>ECO 32-2L14</u>	SERIAL NUMBER	<u>A1092770</u>
CONTROL PANEL(S)	<u>AUTO-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>50.7</u>	<u>380</u>	<u>62</u>	<u>49.8</u>	<u>-</u>	<u>-</u>	<u>4.8</u>
standby/prime+10%	<u>110%</u>	<u>50</u>	<u>380</u>	<u>80.2</u>	<u>52.8</u>	<u>84</u>	<u>-</u>	<u>3.7</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>1010</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>18</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>58</u>	LUB OIL SPEC	<u>Multigrade</u>

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

TESTED BY

Lo Zammit

DATE

31/08/2010

Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER: E8770/4 CE: NO

RATED OUTPUT	KVA	60	RATING CLASSIFICATION	PRD	
	KW	48			
	PHASE	3			
	VOLTS	380		PERFORMANCE CLASS	61
	AMPS	84			
	HZ	50			
	RPM	1500			
GOVERNOR TYPE			COOLING METHOD	WATERCOOLED	

ENGINE MAKE	PERKINS	BUILD NUMBER	DK 51436
ENGINE MODEL	1103A-33T62	SERIAL NUMBER	U243815U
ALTERNATOR MAKE	MECC - ALTE		
ALTERNATOR MODEL	ECO 32-2L/4	SERIAL NUMBER	A1082765
CONTROL PANEL(S)	AUTO - 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	51,0	380	62	40,8	—	—	4,8
standby/ prime+10%	110%	50	380	80,2	52,8	84	—	3,6

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)	1010	DENSITY	0.84 kg/l
TEMPERATURE (Deg c)	18	CALORIFIC VALUE	42.5 MJ/kg
HUMIDITY (%)	58	LUB OIL SPEC	Multigrade

WIRING DIAGRAMS:	
ENGINE 06-13700	CONTROL PANEL(S) 10-170800

TESTED BY
L. Zuccato

DATE
31/08/2010