

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

PLANT NUMBER: E 8753/1 CE: NO

RATED OUTPUT	KVA	<u>31</u>	RATING CLASSIFICATION	<u>EISD</u>	
	KW	<u>24.8</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>415</u>		PERFORMANCE CLASS	<u>61</u>
	AMPS	<u>43</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>D351434</u>
ENGINE MODEL	<u>1103A-336</u>	SERIAL NUMBER	<u>U243340U</u>
ALTERNATOR MAKE	<u>STAMFORD</u>		
ALTERNATOR MODEL	<u>P1446</u>	SERIAL NUMBER	<u>0267422/038</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>90</u>	<u>50.5</u>	<u>415</u>	<u>30.9</u>	<u>22.3</u>	<u>-</u>	<u>-</u>	<u>4.6</u>
standby/ prime+10%	<u>100%</u>	<u>50</u>	<u>415</u>	<u>34.4</u>	<u>24.8</u>	<u>82</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>1012</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>18</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>
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TESTED BY

L. Zammit

DATE

25/08/2010

Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER:

E 8753/2

CE:

NO

RATED OUTPUT	KVA	<u>31</u>	RATING CLASSIFICATION	<u>ESP</u>	
	KW	<u>24,8</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>415</u>		PERFORMANCE CLASS	<u>61</u>
	AMPS	<u>43</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>0351434</u>
ENGINE MODEL	<u>1103A-336</u>	SERIAL NUMBER	<u>U2430760</u>
ALTERNATOR MAKE	<u>STAMFORD</u>		
ALTERNATOR MODEL	<u>D 144 G</u>	SERIAL NUMBER	<u>0267422/045</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>30</u>	<u>50,3</u>	<u>415</u>	<u>30,8</u>	<u>22,3</u>	<u>—</u>	<u>—</u>	<u>4,6</u>
standby/ prime-10%	<u>100%</u>	<u>50</u>	<u>415</u>	<u>34,4</u>	<u>24,8</u>	<u>83</u>	<u>—</u>	<u>9,4</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>1012</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>18</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>
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TESTED BY

L. Zammit

DATE

25/08/2010

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

PLANT NUMBER: ES753/3 CE: NO

RATED OUTPUT	KVA	<u>31</u>	RATING CLASSIFICATION	<u>ESP</u>	
	KW	<u>24.8</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>415</u>		PERFORMANCE CLASS	<u>G1</u>
	AMPS	<u>43</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>D351434</u>
ENGINE MODEL	<u>MO3A-33G</u>	SERIAL NUMBER	<u>02433270</u>
ALTERNATOR MAKE	<u>STAMFORD</u>		
ALTERNATOR MODEL	<u>P144G</u>	SERIAL NUMBER	<u>0267422/037</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>80</u>	<u>50.2</u>	<u>415</u>	<u>30.9</u>	<u>22.3</u>	<u>—</u>	<u>—</u>	<u>4.7</u>
standby/ prime 10%	<u>100%</u>	<u>50</u>	<u>415</u>	<u>34.4</u>	<u>24.8</u>	<u>83</u>	<u>—</u>	<u>4.4</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>1012</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>18</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>
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TESTED BY

L. Zammit

DATE

25/08/2010

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

PLANT NUMBER: E8753/4 CE: NO

RATED OUTPUT	KVA	<u>31</u>	RATING CLASSIFICATION	<u>ESP</u>	
	KW	<u>24,8</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>415</u>		PERFORMANCE CLASS	<u>61</u>
	AMPS	<u>43</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>DJ51434</u>
ENGINE MODEL	<u>1403A-336</u>	SERIAL NUMBER	<u>U24307ZU</u>
ALTERNATOR MAKE	<u>STAMFORD</u>		
ALTERNATOR MODEL	<u>P144G</u>	SERIAL NUMBER	<u>0267424/085</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>90</u>	<u>50,7</u>	<u>415</u>	<u>30,8</u>	<u>22,3</u>	<u>—</u>	<u>—</u>	<u>4,5</u>
standby/ prime 10%	<u>100%</u>	<u>50</u>	<u>415</u>	<u>34,4</u>	<u>24,8</u>	<u>82</u>	<u>—</u>	<u>4,4</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>1008</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>14</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>88</u>	LUB OIL SPEC	<u>Multigrade</u>

WIRING DIAGRAMS:

ENGINE	<u>08-130700</u>	CONTROL PANEL(S)	<u>10-170800</u>
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TESTED BY
L. Zammit

DATE
26/08/2010

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

PLANT NUMBER: E875315 CE: NO

RATED OUTPUT	KVA	<u>31</u>	RATING CLASSIFICATION	<u>ESP</u>	
	KW	<u>24,8</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>415</u>		PERFORMANCE CLASS	<u>61</u>
	AMPS	<u>43</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>12551434</u>
ENGINE MODEL	<u>1103A-336</u>	SERIAL NUMBER	<u>02430840</u>
ALTERNATOR MAKE	<u>STAMFORD</u>		
ALTERNATOR MODEL	<u>D 144G</u>	SERIAL NUMBER	<u>0267422/047</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>80</u>	<u>50,5</u>	<u>415</u>	<u>30,8</u>	<u>22,3</u>	<u>—</u>	<u>—</u>	<u>4,7</u>
standby/prime+10%	<u>100%</u>	<u>50</u>	<u>415</u>	<u>34,4</u>	<u>24,8</u>	<u>82</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>1009</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>14</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>88</u>	LUB OIL SPEC	<u>Multigrade</u>

WIRING DIAGRAMS:

ENGINE	<u>06-130800</u>	CONTROL PANEL(S)	<u>10-170800</u>
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TESTED BY

DATE

L. Zamirouki

26/08/2010