

Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER:

ES752/A

CE:

NO

RATED OUTPUT	KVA	<u>60</u>	RATING CLASSIFICATION	<u>PAP</u>	
	KW	<u>48</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>415</u>	PERFORMANCE CLASS	<u>G-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>DK51436</u>
ENGINE MODEL	<u>1103A-33T62</u>	SERIAL NUMBER	<u>U2438310</u>
ALTERNATOR MAKE	<u>STAMFORD</u>		
ALTERNATOR MODEL	<u>UC1224E</u>	SERIAL NUMBER	<u>0267552/113</u>
CONTROL PANEL(S)	<u>AUTO-START</u>	SERIAL NUMBER(S)	
SWITCHGEAR	<u>MANUAL</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>85</u>	<u>510</u>	<u>415</u>	<u>57</u>	<u>41</u>	<u>—</u>	<u>—</u>	<u>4.8</u>
standby/prime+10%	<u>110%</u>	<u>50</u>	<u>415</u>	<u>74</u>	<u>53</u>	<u>86</u>	<u>—</u>	<u>3.7</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>13</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>82</u>	LUB OIL SPEC	<u>Multigrade</u>

WIRING DIAGRAMS:

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

TESTED BY

L. Zammit

DATE

25/08/2010

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

PLANT NUMBER: EG752/2 CE: NO

RATED OUTPUT	KVA	<u>60</u>	RATING CLASSIFICATION	<u>BAP</u>	
	KW	<u>48</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>415</u>		PERFORMANCE CLASS	<u>61</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>DK51436</u>
ENGINE MODEL	<u>1103A-33TG2</u>	SERIAL NUMBER	<u>U243825U</u>
ALTERNATOR MAKE	<u>STAMFORD</u>	SERIAL NUMBER	<u>0267548/003</u>
ALTERNATOR MODEL	<u>UC1224E</u>	SERIAL NUMBER(S)	
CONTROL PANEL(S)	<u>AUTO-START</u>	SERIAL NUMBER(S)	
SWITCHGEAR	<u>MANUAL</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>85</u>	<u>50,8</u>	<u>415</u>	<u>57</u>	<u>41</u>	<u>—</u>	<u>—</u>	<u>4,4</u>
standby/ prime+10%	<u>110%</u>	<u>50</u>	<u>415</u>	<u>74</u>	<u>53</u>	<u>86</u>	<u>—</u>	<u>3,3</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>1013</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>16</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>65</u>	LUB OIL SPEC	<u>Multigrade</u>

WIRING DIAGRAMS:

ENGINE	<u>CG-130700</u>	CONTROL PANEL(S)	<u>10-170800</u>

TESTED BY L. Zawionka

DATE 25/08/2010

Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER:

E8752/3

CE:

NO

RATED OUTPUT	KVA	<u>60</u>	RATING CLASSIFICATION	<u>PAD</u>	
	KW	<u>48</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>415</u>		PERFORMANCE CLASS	<u>G1</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>DK51436</u>
ENGINE MODEL	<u>1103A-33T62</u>	SERIAL NUMBER	<u>U243833U</u>
ALTERNATOR MAKE	<u>STAMFORD</u>	SERIAL NUMBER	<u>0267552/024</u>
ALTERNATOR MODEL	<u>VC1 224E</u>	SERIAL NUMBER(S)	
CONTROL PANEL(S)	<u>AUTO-START</u>	SERIAL NUMBER(S)	
SWITCHGEAR	<u>MANUAL</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>85</u>	<u>50.8</u>	<u>415</u>	<u>57</u>	<u>41</u>	<u>—</u>	<u>—</u>	<u>4.8</u>
standby/ prime+10%	<u>110%</u>	<u>50</u>	<u>415</u>	<u>74</u>	<u>53</u>	<u>85</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>1013</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>15</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>
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TESTED BY

L. Taurinetti

DATE

25/08/2010

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

PLANT NUMBER: E8752/4 CE: NO

RATED OUTPUT	KVA	<u>60</u>	RATING CLASSIFICATION	<u>DAD</u>	
	KW	<u>48</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>415</u>		PERFORMANCE CLASS	<u>G-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>DK51436</u>
ENGINE MODEL	<u>1103A-33T62</u>	SERIAL NUMBER	<u>U2438230</u>
ALTERNATOR MAKE	<u>STAMFORD</u>		
ALTERNATOR MODEL	<u>UC1 224E</u>	SERIAL NUMBER	<u>0268473/010</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>51.1</u>	<u>415</u>	<u>57</u>	<u>41</u>	<u>—</u>	<u>—</u>	<u>4.8</u>
standby/prime+10%	<u>110%</u>	<u>50</u>	<u>415</u>	<u>74</u>	<u>53</u>	<u>86</u>	<u>—</u>	<u>3.8</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>113</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>
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TESTED BY

L. Zaccaro

DATE

25/08/2010

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

PLANT NUMBER: E375215 CE: DAP NO

RATED OUTPUT	KVA	<u>60</u>	RATING CLASSIFICATION	<u>BAD</u>	
	KW	<u>48</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>415</u>		PERFORMANCE CLASS	<u>61</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>DK51436</u>
ENGINE MODEL	<u>1103A-33T62</u>	SERIAL NUMBER	<u>U2439350</u>
ALTERNATOR MAKE	<u>STAMFORD</u>		
ALTERNATOR MODEL	<u>UC1 224E</u>	SERIAL NUMBER	<u>0268473008</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>51.4</u>	<u>415</u>	<u>57</u>	<u>41</u>	<u>-</u>	<u>-</u>	<u>4.8</u>
standby/ prime+10%	<u>110%</u>	<u>50</u>	<u>415</u>	<u>74</u>	<u>53</u>	<u>85</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>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>52</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