

Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER: E9751/1 CE: NO

RATED OUTPUT	KVA	40	RATING CLASSIFICATION	PRP	
	KW	32			
	PHASE	3			
	VOLTS	415		PERFORMANCE CLASS	G1
	AMPS	56			(AS DEFINED BY ISO 8528-1)
	HZ	50			
	RPM	1500			
GOVERNOR TYPE			COOLING METHOD	WATERCOOLED	

ENGINE MAKE	PERKINS	BUILD NUMBER	DK514.35
ENGINE MODEL	1403A-33TG1	SERIAL NUMBER	U243038U
ALTERNATOR MAKE	STAMFORD		
ALTERNATOR MODEL	P144J	SERIAL NUMBER	0268438/013
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	OIL TEMP	OIL PRESS
						DEG C	DEG C	BAR
load acceptance	30	50.6	415	40	28.8	—	—	4.8
standby/ prime+10%	110%	50	415	48	35.2	84	—	3.8

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)	1008	DENSITY	0.84 kg/l
TEMPERATURE (Deg c)	15	CALORIFIC VALUE	42.5 MJ/kg
HUMIDITY (%)	82	LUB OIL SPEC	Multigrade

WIRING DIAGRAMS:

ENGINE	06-130700	CONTROL PANEL(S)	10-170800
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TESTED BY

Lo Zaccarini

DATE

26/08/2010

Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER: E8751/2 CE: NO

RATED OUTPUT	KVA	40	RATING CLASSIFICATION	PRP	
	KW	32			
	PHASE	3			
	VOLTS	415		PERFORMANCE CLASS	61
	AMPS	56			(AS DEFINED BY ISO 8528-1)
	HZ	50			
	RPM	1500			
GOVERNOR TYPE			COOLING METHOD		WATERCOOLED

ENGINE MAKE	PERKINS	BUILD NUMBER	DK51435
ENGINE MODEL	1403A-33TG1	SERIAL NUMBER	U242833U
ALTERNATOR MAKE	STAMFORD	SERIAL NUMBER	Q268438/004
ALTERNATOR MODEL	P1445	SERIAL NUMBER(S)	
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	OIL TEMP	OIL PRESS
						DEG C	DEG C	BAR
load acceptance	90	50.3	415	40	28.8	—	—	5.0
standby/ prime+10%	110%	50	415	48	35.2	83	—	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)		DENSITY	0.84 kg/l
TEMPERATURE (Deg c)		CALORIFIC VALUE	42.5 MJ/kg
HUMIDITY (%)		LUB OIL SPEC	Multigrade

WIRING DIAGRAMS:			
ENGINE	06-130700	CONTROL PANEL(S)	10-170800

TESTED BY
L. Tammy

DATE
26/08/2010

Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER: E8751/3 CE: NO

RATED OUTPUT	KVA	40	RATING CLASSIFICATION	ORP	
	KW	32			
	PHASE	3			
	VOLTS	415		PERFORMANCE CLASS	6.1
	AMPS	56			
	HZ	50			
RPM	1500				
GOVERNOR TYPE			COOLING METHOD	WATERCOOLED	

ENGINE MAKE	PERKINS	BUILD NUMBER	DK 51435
ENGINE MODEL	1403A-33T6-1	SERIAL NUMBER	U2430440
ALTERNATOR MAKE	STAMFORD	SERIAL NUMBER	0263438/005
ALTERNATOR MODEL	P1443	SERIAL NUMBER(S)	
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	OIL TEMP	OIL PRESS
						DEG C	DEG C	BAR
load acceptance	80	50,5	415	40	28,8	—	—	4,8
standby/prime+10%	110%	50	415	48	35,2	84	—	3,8

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)	1003	DENSITY	0.84 kg/l
TEMPERATURE (Deg c)	16	CALORIFIC VALUE	42.5 MJ/kg
HUMIDITY (%)	77	LUB OIL SPEC	Multigrade

WIRING DIAGRAMS:	
ENGINE	06-130700
CONTROL PANEL(S)	10-170800

TESTED BY
L. Tamala

DATE
26/08/2010

Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER: ES75114 CE: NO

RATED OUTPUT	KVA	40	RATING CLASSIFICATION	PRP	
	KW	32			
	PHASE	3			
	VOLTS	415		PERFORMANCE CLASS	61
	AMPS	56			(AS DEFINED BY ISO 8528-1)
	HZ	50			
	RPM	1500			
GOVERNOR TYPE			COOLING METHOD	WATERCOOLED	

ENGINE MAKE	PERKINS	BUILD NUMBER	DK51435
ENGINE MODEL	1103A-33T61	SERIAL NUMBER	U242929U
ALTERNATOR MAKE	STAMFORD	SERIAL NUMBER	0267427/016
ALTERNATOR MODEL	P144S	SERIAL NUMBER(S)	
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	OIL TEMP	OIL PRESS
						DEG C	DEG C	BAR
load acceptance	30	50.5	415	40	28.8	—	—	4.9
standby/ prime+10%	110%	50	415	48	35.2	83	—	4.2

GENERATING SET ENCLOSURE MECHANICAL PROTECTION

IP
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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)	Sea Level	FUEL SPEC	BS2869A2
BAROMETRIC PRESSURE (kpa)	1008	DENSITY	0.84 kg/l
TEMPERATURE (Deg c)	16	CALORIFIC VALUE	42.5 MJ/kg
HUMIDITY (%)	77	LUB OIL SPEC	Multigrade

WIRING DIAGRAMS:

ENGINE	06-130700	CONTROL PANEL(S)	10-170800
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TESTED BY

Lis Zammit

DATE

26/08/2010

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

PLANT NUMBER: E975115 CE: NO

RATED OUTPUT	KVA	<u>40</u>	RATING CLASSIFICATION	<u>PRP</u>	
	KW	<u>32</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>415</u>		PERFORMANCE CLASS	<u>61</u>
	AMPS	<u>56</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>DK51435</u>
ENGINE MODEL	<u>1103A-33TG1</u>	SERIAL NUMBER	<u>U243028U</u>
ALTERNATOR MAKE	<u>STAMFORD</u>		
ALTERNATOR MODEL	<u>D1445</u>	SERIAL NUMBER	<u>0268438/006</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>50.3</u>	<u>415</u>	<u>40</u>	<u>28.8</u>	<u>—</u>	<u>—</u>	<u>5.0</u>
standby/prime+10%	<u>110%</u>	<u>50</u>	<u>415</u>	<u>48</u>	<u>35.2</u>	<u>84</u>	<u>—</u>	<u>4.3</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>100.8</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>16</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>78</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

26/08/2010

Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER: E975 116 CE: NO

RATED OUTPUT	KVA	40	RATING CLASSIFICATION	PRD	
	KW	32			
	PHASE	3			
	VOLTS	415		PERFORMANCE CLASS	G1
	AMPS	56			(AS DEFINED BY ISO 8528-1)
	HZ	50			
	RPM	1500			
GOVERNOR TYPE			COOLING METHOD		WATERCOOLED

ENGINE MAKE	PERKINS	BUILD NUMBER	DK 51435
ENGINE MODEL	M03A-33TG1	SERIAL NUMBER	02430280
ALTERNATOR MAKE	STAMFORD	SERIAL NUMBER	0268438/015
ALTERNATOR MODEL	P144.5	SERIAL NUMBER(S)	
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	OIL TEMP	OIL PRESS
						DEG C	DEG C	BAR
load acceptance	90	50.5	415	40	28.8	—	—	4.9
standby/ prime+10%	110%	50	415	49	35.2	84	—	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)	1009	DENSITY	0.84 kg/l
TEMPERATURE (Deg c)	16	CALORIFIC VALUE	42.5 MJ/kg
HUMIDITY (%)	80	LUB OIL SPEC	Multigrade

WIRING DIAGRAMS:

ENGINE	06-130700	CONTROL PANEL(S)	10-170800
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TESTED BY
L. Zamora

DATE
26/08/2010

Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER: E9751/7 CE: NO

RATED OUTPUT	KVA	40	RATING CLASSIFICATION	DRP	
	KW	32			
	PHASE	3			
	VOLTS	415		PERFORMANCE CLASS	61
	AMPS	56			(AS DEFINED BY ISO 8528-1)
	HZ	50			
	RPM	1500			
GOVERNOR TYPE			COOLING METHOD		WATERCOOLED

ENGINE MAKE	PERKINS	BUILD NUMBER	DK 51435
ENGINE MODEL	M03A-33TG1	SERIAL NUMBER	U2430370
ALTERNATOR MAKE	STAMFORD		
ALTERNATOR MODEL	D 144 S	SERIAL NUMBER	0268137/007
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	30	50,6	415	40	28,8	—	—	5,0
standby/ prime+10%	110%	50	415	49	35,2	84	—	4,4

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)	1009	DENSITY	0.84 kg/l
TEMPERATURE (Deg c)	14	CALORIFIC VALUE	42.5 MJ/kg
HUMIDITY (%)	77	LUB OIL SPEC	Multigrade

WIRING DIAGRAMS:	
ENGINE	06-130700
CONTROL PANEL(S)	10-170800

TESTED BY

L. Zammit

DATE

27/08/2010

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

PLANT NUMBER: ES751/8 CE: NO

RATED OUTPUT	KVA	<u>40</u>	RATING CLASSIFICATION	<u>PR0</u>	
	KW	<u>32</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>415</u>		PERFORMANCE CLASS	<u>67</u>
	AMPS	<u>56</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>DK51435</u>
ENGINE MODEL	<u>1103A-33TG-1</u>	SERIAL NUMBER	<u>12430350</u>
ALTERNATOR MAKE	<u>STAMFORD</u>		
ALTERNATOR MODEL	<u>P1443</u>	SERIAL NUMBER	<u>0267427017</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	OIL	OIL
						TEMP DEG C	TEMP DEG C	PRESS BAR
load acceptance	<u>80</u>	<u>50.6</u>	<u>415</u>	<u>40</u>	<u>28.8</u>	<u>—</u>	<u>—</u>	<u>4.8</u>
standby/ prime+10%	<u>110%</u>	<u>50</u>	<u>415</u>	<u>48</u>	<u>35.2</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>1010</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>15</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>72</u>	LUB OIL SPEC	<u>Multigrade</u>

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

TESTED BY L. Zaini

DATE 27/08/2010

Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER:

E9751/3

CE:

NO

RATED OUTPUT	KVA	<u>40</u>	RATING CLASSIFICATION	<u>PRP</u>	
	KW	<u>32</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>415</u>		PERFORMANCE CLASS	<u>61</u>
	AMPS	<u>56</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>DK51435</u>
ENGINE MODEL	<u>1103A-33T6-1</u>	SERIAL NUMBER	<u>U242826U</u>
ALTERNATOR MAKE	<u>STAMFORD</u>		
ALTERNATOR MODEL	<u>P-1443</u>	SERIAL NUMBER	<u>0268438/014</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>40</u>	<u>28,8</u>	<u>—</u>	<u>—</u>	<u>4,8</u>
standby/ prime+10%	<u>110%</u>	<u>50</u>	<u>415</u>	<u>48</u>	<u>35,2</u>	<u>84</u>	<u>—</u>	<u>3,8</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>1010</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>15</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>70</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. J. J. J. J.

DATE

27/08/2010

Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER: ES751/10 CE: NO

RATED OUTPUT	KVA	40	RATING CLASSIFICATION	PRP	
	KW	32			
	PHASE	3			
	VOLTS	415		PERFORMANCE CLASS	6.1
	AMPS	56			(AS DEFINED BY ISO 8528-1)
	HZ	50			
	RPM	1500			
GOVERNOR TYPE			COOLING METHOD	WATERCOOLED	

ENGINE MAKE	PERKINS	BUILD NUMBER	DK51435
ENGINE MODEL	1103A - 33TG1	SERIAL NUMBER	U243030U
ALTERNATOR MAKE	STAMFORD	SERIAL NUMBER	0267427/018
ALTERNATOR MODEL	D 144.5	SERIAL NUMBER(S)	
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	OIL TEMP	OIL PRESS
						DEG C	DEG C	BAR
load acceptance	90	50.6	415	40	28.8	—	—	4.8
standby/ prime+10%	110%	50	415	48	35.2	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)	16	CALORIFIC VALUE	42.5 MJ/kg
HUMIDITY (%)	72	LUB OIL SPEC	Multigrade

WIRING DIAGRAMS:

ENGINE	06-130700	CONTROL PANEL(S)	10-170800
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TESTED BY

L. Zammit

DATE

27/08/2010