

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

PLANT NUMBER: E9797-1 CE: NO

RATED OUTPUT	KVA	20	RATING CLASSIFICATION	PrP	
	KW	16			
	PHASE	3			
	VOLTS	400/230		PERFORMANCE CLASS	G1
	AMPS	23			
	HZ	50			
	RPM	1500			
GOVERNOR TYPE			COOLING METHOD		
			WATER		

ENGINE MAKE	PERKINS	BUILD NUMBER	
ENGINE MODEL	4404D-22G	SERIAL NUMBER	984928T
ALTERNATOR MAKE	MECCALTE	SERIAL NUMBER	A1094914
ALTERNATOR MODEL	ECO28-1L/14	SERIAL NUMBER(S)	n
CONTROL PANEL(S)	BE 7220	SERIAL NUMBER(S)	
SWITCHGEAR		SERIAL NUMBER(S)	

LOAD TEST RESULTS (AT UNITY POWER FACTOR)

LOAD		HZ	VOLTS	AMPS	KW	ENGINE TEMP DEG C	OIL TEMP DEG C	OIL PRESS BAR
type	%							
load acceptance	60	51	454	14	10	82	—	4.8
standby/prime+10%	110%	50	403	25	18	84	—	4.6

GENERATING SET ENCLOSURE MECHANICAL PROTECTION IP

AVERAGE SOUND PRESSURE LEVEL (DBA AT 1 M) 75

(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)	101.2	DENSITY	0.84 kg/l	
TEMPERATURE (Deg c)	14.8	CALORIFIC VALUE	42.5 MJ/kg	
HUMIDITY (%)	53	LUB OIL SPEC	Multigrade	

WIRING DIAGRAMS:

ENGINE	08-152300	CONTROL PANEL(S)	10-170300
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PLANT NUMBER: E9797-2 CE: NO

RATED OUTPUT	KVA	20	RATING CLASSIFICATION	PerP	
	KW	16			
	PHASE	3			
	VOLTS	400 / 230		PERFORMANCE CLASS	G1
	AMPS	23			
	HZ	50			
	RPM	1500			
GOVERNOR TYPE			COOLING METHOD		
			WATER		

ENGINE MAKE	PERKINS	BUILD NUMBER	
ENGINE MODEL	404D-22G	SERIAL NUMBER	983118T
ALTERNATOR MAKE	MECCALTE	SERIAL NUMBER	A.10914946
ALTERNATOR MODEL	ECO28-1L/LL	SERIAL NUMBER(S)	
CONTROL PANEL(S)	ISE 7220	SERIAL NUMBER(S)	
SWITCHGEAR		SERIAL NUMBER(S)	

LOAD TEST RESULTS (AT UNITY POWER FACTOR)								
LOAD		HZ	VOLTS	AMPS	KW	ENGINE TEMP DEG C	OIL TEMP DEG C	OIL PRESS BAR
type	%							
load acceptance	60	51.1	403	14	10	82	-	4.7
standby / prime+10%	110%	49.9	402	25	18	83	-	4.5

GENERATING SET ENCLOSURE MECHANICAL PROTECTION IP

AVERAGE SOUND PRESSURE LEVEL (DBA AT 1 M) 75

(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)	101.2	DENSITY	0.84 kg/l	
TEMPERATURE (Deg c)	14.8	CALORIFIC VALUE	42.5 MJ/kg	
HUMIDITY (%)	53	LUB OIL SPEC	Multigrade	

WIRING DIAGRAMS:		
ENGINE	08-152300	CONTROL PANEL(S)
		10-170300

TESTED BY _____ DATE _____

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PLANT NUMBER: E9797-3 CE: NO

RATED OUTPUT	KVA	20	RATING CLASSIFICATION	PRP	
	KW	16			
	PHASE	3			
	VOLTS	400 / 230		PERFORMANCE CLASS	G1
	AMPS	23			(AS DEFINED BY ISO 8528-1)
	HZ	50			
	RPM	1500			
GOVERNOR TYPE		COOLING METHOD	WATER		

ENGINE MAKE	PERKINS	BUILD NUMBER	
ENGINE MODEL	404D-22G	SERIAL NUMBER	984908T
ALTERNATOR MAKE	MECCALTE	SERIAL NUMBER	A1093832
ALTERNATOR MODEL	ECO28-1L/LL	SERIAL NUMBER(S)	
CONTROL PANEL(S)	BE 7220	SERIAL NUMBER(S)	
SWITCHGEAR		SERIAL NUMBER(S)	

LOAD TEST RESULTS (AT UNITY POWER FACTOR)								
LOAD		HZ	VOLTS	AMPS	KW	ENGINE TEMP DEG C	OIL TEMP DEG C	OIL PRESS BAR
type	%							
load acceptance	60	51.4	454	14	10	83	-	5.0
standby / prime+10%	110%	50.2	403	25	18	84	-	4.7

GENERATING SET ENCLOSURE MECHANICAL PROTECTION IP
 AVERAGE SOUND PRESSURE LEVEL (DBA AT 1 M) 75
 (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)	101.2	DENSITY	0.84 kg/l	
TEMPERATURE (Deg c)	14.8	CALORIFIC VALUE	42.5 MJ/kg	
HUMIDITY (%)	53	LUB OIL SPEC	Multigrade	

WIRING DIAGRAMS:		
ENGINE	08-152300	CONTROL PANEL(S)
		10-170300

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Generating Set Functional Test Report
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PLANT NUMBER: E9797-4 CE: NO

RATED OUTPUT	KVA	20	RATING CLASSIFICATION	PRP	
	KW	16			
	PHASE	3			
	VOLTS	400 / 230		PERFORMANCE CLASS	G1
	AMPS	23			
	HZ	50			
	RPM	1500			
GOVERNOR TYPE			COOLING METHOD	WATER	

ENGINE MAKE	PERKINS	BUILD NUMBER	
ENGINE MODEL	404D-22G	SERIAL NUMBER	986428T
ALTERNATOR MAKE	MECCALTE	SERIAL NUMBER	A1094944
ALTERNATOR MODEL	ECO28-1L/4	SERIAL NUMBER(S)	
CONTROL PANEL(S)	BE 7220	SERIAL NUMBER(S)	
SWITCHGEAR		SERIAL NUMBER(S)	

LOAD TEST RESULTS (AT UNITY POWER FACTOR)								
LOAD		HZ	VOLTS	AMPS	KW	ENGINE TEMP DEG C	OIL TEMP DEG C	OIL PRESS BAR
type	%							
load acceptance	60	51	402	14	10	83	-	4.8
standby/ prime+10%	110%	50	403	25	18	84	-	4.6

GENERATING SET ENCLOSURE MECHANICAL PROTECTION IP
 AVERAGE SOUND PRESSURE LEVEL (DBA AT 1 M) 75
 (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)	101.2	DENSITY	0.84 kg/l	
TEMPERATURE (Deg c)	14.8	CALORIFIC VALUE	42.5 MJ/kg	
HUMIDITY (%)	53	LUB OIL SPEC	Multigrade	

WIRING DIAGRAMS:			
ENGINE	08-152300	CONTROL PANEL(S)	10-170300

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Generating Set Functional Test Report
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PLANT NUMBER: E9797-5 CE: NO

RATED OUTPUT	KVA	20	RATING CLASSIFICATION	PRP	
	KW	16			
	PHASE	3			
	VOLTS	400/230		PERFORMANCE CLASS	G1
	AMPS	23			
	HZ	50			
RPM	1500				
GOVERNOR TYPE			COOLING METHOD		
			WATER		

ENGINE MAKE	PERKINS	BUILD NUMBER	
ENGINE MODEL	404D-22G	SERIAL NUMBER	9864367
ALTERNATOR MAKE	MECCALTE	SERIAL NUMBER	A1093829
ALTERNATOR MODEL	ECO28-1L/14	SERIAL NUMBER(S)	
CONTROL PANEL(S)	SE 7220	SERIAL NUMBER(S)	
SWITCHGEAR		SERIAL NUMBER(S)	

LOAD TEST RESULTS (AT UNITY POWER FACTOR)								
LOAD		HZ	VOLTS	AMPS	KW	ENGINE TEMP DEG C	OIL TEMP DEG C	OIL PRESS BAR
type	%							
load acceptance	60	51.6	402	14	10	81	-	5.23
standby/prime+10%	110%	50.7	402	25	18	85	-	5.03

GENERATING SET ENCLOSURE MECHANICAL PROTECTION IP

AVERAGE SOUND PRESSURE LEVEL (DBA AT 1 M) 75

(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)	101.2	DENSITY	0.84 kg/l	
TEMPERATURE (Deg c)	14.8	CALORIFIC VALUE	42.5 MJ/kg	
HUMIDITY (%)	53	LUB OIL SPEC	Multigrade	

WIRING DIAGRAMS:	
ENGINE	08-152300
CONTROL PANEL(S)	10-170300

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Generating Set Functional Test Report
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PLANT NUMBER: E9797-6 CE: NO

RATED OUTPUT	KVA	20	RATING CLASSIFICATION	PrP	
	KW	16			
	PHASE	3			
	VOLTS	400 / 230		PERFORMANCE CLASS	G1
	AMPS	23			
	HZ	50			
	RPM	1500			
GOVERNOR TYPE			COOLING METHOD	WATER	

ENGINE MAKE	PERKINS	BUILD NUMBER	
ENGINE MODEL	404D-22G	SERIAL NUMBER	983115T
ALTERNATOR MAKE	MECCALTE	SERIAL NUMBER	A1094524
ALTERNATOR MODEL	ECO28-1L/14	SERIAL NUMBER(S)	
CONTROL PANEL(S)	BS 7220	SERIAL NUMBER(S)	
SWITCHGEAR		SERIAL NUMBER(S)	

LOAD TEST RESULTS (AT UNITY POWER FACTOR)								
LOAD		HZ	VOLTS	AMPS	KW	ENGINE TEMP DEG C	OIL TEMP DEG C	OIL PRESS BAR
type	%							
load acceptance	60	51.9	406	14	10	81	-	4.6
standby/ prime+10%	110%	50	405	25	18	84	-	4.4

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AVERAGE SOUND PRESSURE LEVEL (DBA AT 1 M) 75

(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)	101.2	DENSITY	0.84 kg/l
TEMPERATURE (Deg c)	14.8	CALORIFIC VALUE	42.5 MJ/kg
HUMIDITY (%)	53	LUB OIL SPEC	Multigrade

WIRING DIAGRAMS:	
ENGINE	08-152300
CONTROL PANEL(S)	10-170300

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PLANT NUMBER: E9797-8 CE: NO

RATED OUTPUT	KVA	<u>20</u>	RATING CLASSIFICATION	<u>PerP</u>			
	KW	<u>16</u>					
	PHASE	<u>3</u>					
	VOLTS	<u>400/230</u>			PERFORMANCE CLASS	<u>G1</u>	
	AMPS	<u>23</u>					(AS DEFINED BY ISO 8528-1)
	HZ	<u>50</u>					
	RPM	<u>1500</u>					
GOVERNOR TYPE		COOLING METHOD	<u>WATER</u>				

ENGINE MAKE	<u>PERKINS</u>	BUILD NUMBER	
ENGINE MODEL	<u>404D-22G</u>	SERIAL NUMBER	<u>986390T</u>
ALTERNATOR MAKE	<u>MELCALTE</u>	SERIAL NUMBER	<u>A10913835</u>
ALTERNATOR MODEL	<u>ECO28-1L/14</u>	SERIAL NUMBER(S)	
CONTROL PANEL(S)	<u>BE 7220</u>	SERIAL NUMBER(S)	
SWITCHGEAR		SERIAL NUMBER(S)	

LOAD TEST RESULTS (AT UNITY POWER FACTOR)								
LOAD		HZ	VOLTS	AMPS	KW	ENGINE TEMP DEG C	OIL TEMP DEG C	OIL PRESS BAR
type	%							
load acceptance	<u>60</u>	<u>50.8</u>	<u>402</u>	<u>14</u>	<u>10</u>	<u>82</u>	<u>-</u>	<u>4.9</u>
standby/prime+10%	<u>110%</u>	<u>49.6</u>	<u>401</u>	<u>25</u>	<u>18</u>	<u>84</u>	<u>-</u>	<u>4.6</u>

GENERATING SET ENCLOSURE MECHANICAL PROTECTION IP
 AVERAGE SOUND PRESSURE LEVEL (DBA AT 1 M) 75
 (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>101.2</u>	DENSITY	<u>0.84 kg/l</u>	
TEMPERATURE (Deg c)	<u>14.8</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>	
HUMIDITY (%)	<u>53</u>	LUB OIL SPEC	<u>Multigrade</u>	

WIRING DIAGRAMS:

ENGINE	<u>08-152300</u>	CONTROL PANEL(S)	<u>10-170300</u>
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Generating Set Functional Test Report
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PLANT NUMBER: E9797-9 CE: NO

RATED OUTPUT	KVA	<u>20</u>	RATING CLASSIFICATION	<u>PRP</u>			
	KW	<u>16</u>					
	PHASE	<u>3</u>					
	VOLTS	<u>400/230</u>			PERFORMANCE CLASS	<u>G1</u>	
	AMPS	<u>23</u>					(AS DEFINED BY ISO 8528-1)
	HZ	<u>50</u>					
RPM	<u>1500</u>	GOVERNOR TYPE	COOLING METHOD	<u>WATER</u>			

ENGINE MAKE	<u>PERKINS</u>	BUILD NUMBER	
ENGINE MODEL	<u>404D-22G</u>	SERIAL NUMBER	<u>983902T</u>
ALTERNATOR MAKE	<u>MELCALTE</u>	SERIAL NUMBER	<u>A1094526</u>
ALTERNATOR MODEL	<u>ECO28-1L/14</u>	SERIAL NUMBER(S)	
CONTROL PANEL(S)	<u>BE 7220</u>	SERIAL NUMBER(S)	
SWITCHGEAR		SERIAL NUMBER(S)	

LOAD		HZ	VOLTS	AMPS	KW	ENGINE TEMP DEG C	OIL TEMP DEG C	OIL PRESS BAR
type	%							
load acceptance	<u>60</u>	<u>51.1</u>	<u>404</u>	<u>14</u>	<u>10</u>	<u>83</u>		<u>4.9</u>
standby/prime+10%	<u>110%</u>	<u>49.8</u>	<u>403</u>	<u>25</u>	<u>18</u>	<u>84</u>		<u>4.5</u>

GENERATING SET ENCLOSURE MECHANICAL PROTECTION IP
 AVERAGE SOUND PRESSURE LEVEL (DBA AT 1 M) 75
 (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>101.2</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>14.8</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>53</u>	LUB OIL SPEC	<u>Multigrade</u>

ENGINE	<u>08-152300</u>	CONTROL PANEL(S)	<u>10-170300</u>
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DATE