

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

PLANT NUMBER: E9822/1 CE: No

RATED OUTPUT	KVA	<u>45</u>	RATING CLASSIFICATION	<u>PRP</u>			
	KW	<u>36</u>					
	PHASE	<u>3</u>					
	VOLTS	<u>400/230</u>			PERFORMANCE CLASS	<u>G1</u>	
	AMPS	<u>65</u>					(AS DEFINED BY ISO 8528-1)
	HZ	<u>50</u>					
	RPM	<u>1500</u>					
GOVERNOR TYPE	<u>Mechanical</u>	COOLING METHOD	<u>WATERCOOLED</u>				

ENGINE MAKE	<u>Perkins</u>	BUILD NUMBER	<u>DK51435</u>
ENGINE MODEL	<u>1103A-33TG1</u>	SERIAL NUMBER	<u>U246492U</u>
ALTERNATOR MAKE	<u>Merc Alte</u>		
ALTERNATOR MODEL	<u>ECO 32-1L/4</u>	SERIAL NUMBER	<u>0001438450</u>
CONTROL PANEL(S)	<u>Manual 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>100%</u>	<u>50.7</u>	<u>400</u>	<u>47</u>	<u>32</u>	<u>-</u>	<u>-</u>	<u>4.8</u>
standby/prime+10%	<u>110%</u>	<u>50.0</u>	<u>400</u>	<u>57</u>	<u>40</u>	<u>84</u>	<u>-</u>	<u>4.0</u>

GENERATING SET ENCLOSURE MECHANICAL PROTECTION

IP 75

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>101.2</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>16</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>94</u>	LUB OIL SPEC	<u>Multigrade</u>

WIRING DIAGRAMS:

ENGINE	<u>06-130700</u>	CONTROL PANEL(S)	<u>AMB-986F</u>
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TESTED BY

H. Wal

DATE 29/09/2010

Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER: EA822/2 CE: No

RATED OUTPUT	KVA	45	RATING CLASSIFICATION	PRP
	KW	36		
	PHASE	3		
	VOLTS	400/230		
	AMPS	65		
	HZ	50		
	RPM	1500		
GOVERNOR TYPE	Mechanical		COOLING METHOD	WATERCOOLED
			PERFORMANCE CLASS	G1 <small>(AS DEFINED BY ISO 8528-1)</small>

ENGINE MAKE	Perkins	BUILD NUMBER	DKS1435
ENGINE MODEL	1103A-32TG1	SERIAL NUMBER	U246474U
ALTERNATOR MAKE	Mecc Alte	SERIAL NUMBER	0001438454
ALTERNATOR MODEL	ECO 32-1L/4	SERIAL NUMBER(S)	
CONTROL PANEL(S)	Manual 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	100%	50.5	400	47	32	-	-	4.2
standby/ prime+10%	110%	50.0	400	57	40	84	-	3.7

GENERATING SET ENCLOSURE MECHANICAL PROTECTION

IP
75

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)	101.3	DENSITY	0.84 kg/l
TEMPERATURE (Deg c)	9	CALORIFIC VALUE	42.5 MJ/kg
HUMIDITY (%)	100	LUB OIL SPEC	Multigrade

WIRING DIAGRAMS:

ENGINE	06-130700	CONTROL PANEL(S)	Am3-986F
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TESTED BY

H. W. L.

DATE 30/09/2010

Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER: E9822/3 CE: No

RATED OUTPUT	KVA	45	RATING CLASSIFICATION	PRP	
	KW	36			
	PHASE	3			
	VOLTS	400/230		PERFORMANCE CLASS	G1
	AMPS	65			
	HZ	50			
RPM	1500				
GOVERNOR TYPE			Mechanical	COOLING METHOD	WATERCOOLED

ENGINE MAKE	Perkins	BUILD NUMBER	DKS1435
ENGINE MODEL	1103A-33TK1	SERIAL NUMBER	U2463994
ALTERNATOR MAKE	Mecc Alte	SERIAL NUMBER	000/438449
ALTERNATOR MODEL	ECO 32-1L/4	SERIAL NUMBER(S)	
CONTROL PANEL(S)	Manual 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	100%	50.6	400	47	32	-	-	4.8
standby/ prime+10%	110%	50.0	400	57	40	84	-	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 ISO 8528-10)

AMBIENT TEST CONDITIONS			FUEL/OIL USED	
ALTITUDE (M)	Sea Level	FUEL SPEC	BS2869A2	
BAROMETRIC PRESSURE (kpa)	101.3	DENSITY	0.84 kg/l	
TEMPERATURE (Deg c)	10	CALORIFIC VALUE	42.5 MJ/kg	
HUMIDITY (%)	94	LUB OIL SPEC	Multigrade	

WIRING DIAGRAMS:

ENGINE	06-130700	CONTROL PANEL(S)	Am3-986F
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TESTED BY

H. Ward

DATE 30/09/2010