

## Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER: E9661/1 CE: No

RATED OUTPUT	KVA	30	RATING CLASSIFICATION	PRP	
	KW	24			
	PHASE	3			
	VOLTS	400/230		PERFORMANCE CLASS	G1
	AMPS	43			
	HZ	50			
	RPM	1500			
GOVERNOR TYPE			Mechanical	COOLING METHOD	WATERCOOLED

ENGINE MAKE	Perkins	BUILD NUMBER	DSS1434
ENGINE MODEL	1103A-32G	SERIAL NUMBER	U242322U
ALTERNATOR MAKE	Mecc Alte		
ALTERNATOR MODEL	ECO 28-VL4	SERIAL NUMBER	0001426370
CONTROL PANEL(S)	Manual start	SERIAL NUMBER(S)	
SWITCHGEAR		SERIAL NUMBER(S)	

### LOAD TEST RESULTS (AT UNITY POWER FACTOR)

TYPE	LOAD %	HZ	VOLTS	AMPS	KW	ENGINE TEMP DEG C	OIL TEMP DEG C	OIL PRESS BAR
load acceptance	90%	50.3	400	31	22	—	—	4.5
standby/ prime+10%	110%	50.0	400	38	26	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)	101.6	DENSITY	0.84 kg/l
TEMPERATURE (Deg c)	22	CALORIFIC VALUE	42.5 MJ/kg
HUMIDITY (%)	53	LUB OIL SPEC	Multigrade

### WIRING DIAGRAMS:

ENGINE	06-137100	CONTROL PANEL(S)	AM3-986F
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TESTED BY H. Wal

DATE 26/07/2010

## Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER: E9661/2 CE: No

RATED OUTPUT	KVA	30	RATING CLASSIFICATION	PRP	
	KW	24			
	PHASE	3			
	VOLTS	400/230		PERFORMANCE CLASS	G1
	AMPS	43			(AS DEFINED BY ISO 8528-1)
	HZ	50			
	RPM	1500			
GOVERNOR TYPE			Mechanical	COOLING METHOD	WATERCOOLED

ENGINE MAKE	Perkins	BUILD NUMBER	D551434
ENGINE MODEL	1103A-33G	SERIAL NUMBER	U242313U
ALTERNATOR MAKE	Mecc Alte		
ALTERNATOR MODEL	ECO 28VL/4	SERIAL NUMBER	0001426415
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	90%	50.3	400	31	22	—	—	4.5
standby/ prime+10%	110%	50.0	400	38	26	82	—	4.1

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)

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### WIRING DIAGRAMS:

ENGINE	06-137100	CONTROL PANEL(S)	AMS-986F
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TESTED BY

H. Wal

DATE 26/07/2010