

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

PLANT NUMBER:

E9765/1

CE:

NO

RATED OUTPUT	KVA	<u>60</u>	RATING CLASSIFICATION	<u>PMP</u>	
	KW	<u>48</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>415/240</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	<u>MECHANICAL</u>		COOLING METHOD	<u>WATERCOOLED</u>	

ENGINE MAKE	<u>PEDRINI</u>	BUILD NUMBER	<u>DKS1436</u>
ENGINE MODEL	<u>1103A-33TG2</u>	SERIAL NUMBER	<u>U2464094</u>
ALTERNATOR MAKE	<u>MECCALTE</u>		
ALTERNATOR MODEL	<u>ECO32-2L4</u>	SERIAL NUMBER	<u>A1082990</u>
CONTROL PANEL(S)	<u>AUTO START</u>	SERIAL NUMBER(S)	
SWITCHGEAR	<u>A-T-S</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>50.5</u>	<u>415</u>	<u>57</u>	<u>41</u>	<u>-</u>	<u>-</u>	<u>4.5</u>
standby/ prime+10%	<u>110%</u>	<u>50.0</u>	<u>415</u>	<u>74</u>	<u>53</u>	<u>84</u>	<u>-</u>	<u>3.3</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>101.5</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>14</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>88</u>	LUB OIL SPEC	<u>Multigrade</u>

WIRING DIAGRAMS:

ENGINE	<u>06-130700</u>	CONTROL PANEL(S)	<u>10-170300</u> <u>10-173300</u>
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TESTED BY

J. JOHNSON

DATE

22/09/2010

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

PLANT NUMBER: EQ765/2 CE: NO

RATED OUTPUT	KVA	<u>60</u>	RATING CLASSIFICATION	<u>PPM</u>	
	KW	<u>48</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>415/240</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		<u>MECHANICAL</u>	COOLING METHOD	<u>WATERCOOLED</u>	

ENGINE MAKE	<u>PEDERSEN</u>	BUILD NUMBER	<u>DK51436</u>
ENGINE MODEL	<u>1103A-33TG2</u>	SERIAL NUMBER	<u>U246424U</u>
ALTERNATOR MAKE	<u>MECCALTE</u>		
ALTERNATOR MODEL	<u>ECO32-2L4</u>	SERIAL NUMBER	<u>A1083001</u>
CONTROL PANEL(S)	<u>AUTO START</u>	SERIAL NUMBER(S)	
SWITCHGEAR	<u>A-T-S</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>50.4</u>	<u>416</u>	<u>57</u>	<u>41</u>	<u>-</u>	<u>-</u>	<u>5.0</u>
standby/ prime+10%	<u>110%</u>	<u>50.0</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) 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>101.5</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>14</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>88</u>	LUB OIL SPEC	<u>Multigrade</u>

WIRING DIAGRAMS:			
ENGINE	<u>06-130700</u>	CONTROL PANEL(S)	<u>10-170300</u>
			<u>10-173300</u>

TESTED BY I. JOHNSON

DATE 22/09/2010

Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER: E9765/3 CE: NO

RATED OUTPUT	KVA	60	RATING CLASSIFICATION	PPP	
	KW	48			
	PHASE	3			
	VOLTS	415/240		PERFORMANCE CLASS	G1
	AMPS	84			(AS DEFINED BY ISO 8528-1)
	HZ	50			
RPM	1500				
GOVERNOR TYPE	MECHANICAL		COOLING METHOD	WATERCOOLED	

ENGINE MAKE	PERMINS	BUILD NUMBER	DKS1436
ENGINE MODEL	1103A-33TG2	SERIAL NUMBER	U246412U
ALTERNATOR MAKE	MECCALTE	SERIAL NUMBER	A1083022
ALTERNATOR MODEL	ECO32-2L4	SERIAL NUMBER(S)	
CONTROL PANEL(S)	AUTO START	SERIAL NUMBER(S)	
SWITCHGEAR	A-T-S	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	85	50.5	416	57	41	—	—	4.6
standby/ prime+10%	110%	50.0	415	74	53	84	—	3.8

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)	101.5	DENSITY	0.84 kg/l
TEMPERATURE (Deg c)	14	CALORIFIC VALUE	42.5 MJ/kg
HUMIDITY (%)	88	LUB OIL SPEC	Multigrade

WIRING DIAGRAMS:			
ENGINE	06-130700	CONTROL PANEL(S)	10-17030D
			10-17330D

TESTED BY I. JOHNSON

DATE 22/09/2010