

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

PLANT NUMBER:

E9723/1

CE:

NO

RATED OUTPUT	KVA	<u>570</u>	RATING CLASSIFICATION	<u>Pnp</u>			
	KW	<u>456</u>					
	PHASE	<u>3</u>					
	VOLTS	<u>400/230</u>			PERFORMANCE CLASS	<u>G1</u>	
	AMPS	<u>923</u>					(AS DEFINED BY ISO 8528-1)
	HZ	<u>50</u>					
	RPM	<u>1500</u>					
GOVERNOR TYPE	<u>E.C.U.</u>	COOLING METHOD	<u>WATERCOOLED</u>				

ENGINE MAKE	<u>VOLVO</u>	BUILD NUMBER	<u>869254</u>
ENGINE MODEL	<u>TAD1642GE</u>	SERIAL NUMBER	<u>2016045243</u>
ALTERNATOR MAKE	<u>MECC-ALTE</u>	SERIAL NUMBER	<u>0001409038</u>
ALTERNATOR MODEL	<u>ECD40-1.5L</u>	SERIAL NUMBER(S)	
CONTROL PANEL(S)	<u>FAN ISSUE (7510)</u>	SERIAL NUMBER(S)	
SWITCHGEAR	<u>—</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>60</u>	<u>50.0</u>	<u>400</u>	<u>395</u>	<u>274</u>	<u>—</u>	<u>—</u>	<u>5.6</u>
standby/prime+10%	<u>110%</u>	<u>50.0</u>	<u>400</u>	<u>724</u>	<u>502</u>	<u>84</u>	<u>99</u>	<u>4.6</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>101.3</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>16</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>77</u>	LUB OIL SPEC	<u>Multigrade</u>

WIRING DIAGRAMS:

ENGINE	<u>EMS2</u>	CONTROL PANEL(S)	<u>SB18793</u>
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TESTED BY

H. Ward

DATE 06/08/2010

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

PLANT NUMBER:

E9723/2

CE:

NO

RATED OUTPUT	KVA	<u>570</u>	RATING CLASSIFICATION	<u>Pnp</u>	
	KW	<u>450</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>400/230</u>		PERFORMANCE CLASS (AS DEFINED BY ISO 8528-1)	<u>G1</u>
	AMPS	<u>823</u>			
	HZ	<u>50</u>			
	RPM	<u>1500</u>			
GOVERNOR TYPE	<u>E.C.U.</u>	COOLING METHOD	<u>WATERCOOLED</u>		

ENGINE MAKE	<u>VOLVO</u>	BUILD NUMBER	<u>869254</u>
ENGINE MODEL	<u>TAD1642GE</u>	SERIAL NUMBER	<u>2016045242</u>
ALTERNATOR MAKE	<u>MECC-ALTE</u>	SERIAL NUMBER	<u>8001409039</u>
ALTERNATOR MODEL	<u>ECD40-1.5L</u>	SERIAL NUMBER(S)	
CONTROL PANEL(S)	<u>FAB ISSUE (7510)</u>	SERIAL NUMBER(S)	
SWITCHGEAR	<u>—</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
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standby/prime+10%	<u>110%</u>	<u>50.0</u>	<u>400</u>	<u>724</u>	<u>502</u>	<u>83</u>	<u>99</u>	<u>4.4</u>

GENERATING SET ENCLOSURE MECHANICAL PROTECTION

IP
—

AVERAGE SOUND PRESSURE LEVEL (DBA AT 1 M)

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HUMIDITY (%)	<u>77</u>	LUB OIL SPEC	<u>Multigrade</u>

WIRING DIAGRAMS:

ENGINE	<u>EMS 2</u>	CONTROL PANEL(S)	<u>SB18793</u>

TESTED BY

H.Wal

DATE 06/08/2010