

# Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER:

B9888/2

CE:

NO

RATED OUTPUT	KVA	<u>340</u>	RATING CLASSIFICATION	<u>PMP</u>	
	KW	<u>272</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>220/127</u>		PERFORMANCE CLASS	<u>G1</u>
	AMPS	<u>892</u>		(AS DEFINED BY ISO 8528-1)	
	HZ	<u>60</u>			
	RPM	<u>1800</u>			
GOVERNOR TYPE		<u>E.C.U.</u>	COOLING METHOD	<u>WATERCOOLED</u>	

ENGINE MAKE	<u>VOLVO</u>	BUILD NUMBER	<u>869273</u>
ENGINE MODEL	<u>TAD941GE</u>	SERIAL NUMBER	<u>70091177729</u>
ALTERNATOR MAKE	<u>STANFORD</u>		
ALTERNATOR MODEL	<u>H08666D</u>	SERIAL NUMBER	<u>0261399/004</u>
CONTROL PANEL(S)	<u>AUTO START</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>50</u>	<u>60.0</u>	<u>220</u>	<u>357</u>	<u>136</u>	<u>—</u>	<u>—</u>	<u>7.2</u>
standby/ prime+10%	<u>110%</u>	<u>60.0</u>	<u>220</u>	<u>785</u>	<u>299</u>	<u>84</u>	<u>—</u>	<u>5.4</u>

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)	<u>Sea Level</u>	FUEL SPEC	<u>BS2869A2</u>
BAROMETRIC PRESSURE (kpa)	<u>102.3</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>10</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>87</u>	LUB OIL SPEC	<u>Multigrade</u>

### WIRING DIAGRAMS:

ENGINE	<u>EMS2</u>	CONTROL PANEL(S)	<u>10-170600</u>
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TESTED BY

I. JOHNSON

DATE

11/10/2010

## Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER:

E9888/3

CE:

NO

RATED OUTPUT	KVA	<u>340</u>	RATING CLASSIFICATION	<u>PMP</u>	
	KW	<u>272</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>220/127</u>		PERFORMANCE CLASS	<u>G1</u>
	AMPS	<u>892</u>		(AS DEFINED BY ISO 8528-1)	
	HZ	<u>60</u>			
	RPM	<u>1800</u>			
GOVERNOR TYPE		<u>E.C.U.</u>	COOLING METHOD	<u>WATERCOOLED</u>	

ENGINE MAKE	<u>VOLVO</u>	BUILD NUMBER	<u>869273</u>
ENGINE MODEL	<u>TAD964GE</u>	SERIAL NUMBER	<u>7009177528</u>
ALTERNATOR MAKE	<u>STAMFORD</u>		
ALTERNATOR MODEL	<u>H08666ED</u>	SERIAL NUMBER	<u>0261400/003</u>
CONTROL PANEL(S)	<u>AVD SMT</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>50</u>	<u>60.0</u>	<u>220</u>	<u>357</u>	<u>136</u>	<u>✓</u>	<u>—</u>	<u>7.2</u>
standby/ prime+10%	<u>110%</u>	<u>60.0</u>	<u>220</u>	<u>785</u>	<u>299</u>	<u>81</u>	<u>—</u>	<u>6.6</u>

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)	<u>Sea Level</u>	FUEL SPEC	<u>BS2869A2</u>
BAROMETRIC PRESSURE (kpa)	<u>102.3</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>10</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>87</u>	LUB OIL SPEC.	<u>Multigrade</u>

### WIRING DIAGRAMS:

ENGINE	<u>EM52</u>	CONTROL PANEL(S)	<u>10 - 170400</u>
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TESTED BY

I. Johnson

DATE

12/10/2010

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

PLANT NUMBER:

E9888/4

CE:

NO

RATED OUTPUT	KVA	<u>340</u>	RATING CLASSIFICATION	<u>PMP</u>	
	KW	<u>272</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>220/127</u>		PERFORMANCE CLASS	<u>G1</u>
	AMPS	<u>892</u>		(AS DEFINED BY ISO 8528-1)	
	HZ	<u>60</u>			
	RPM	<u>1800</u>			
GOVERNOR TYPE		<u>E.C.U.</u>	COOLING METHOD	<u>WATERCOOLED</u>	

ENGINE MAKE	<u>VOLVO</u>	BUILD NUMBER	<u>869273</u>
ENGINE MODEL	<u>TAD941GE</u>	SERIAL NUMBER	<u>7009177526</u>
ALTERNATOR MAKE	<u>STANFORD</u>		
ALTERNATOR MODEL	<u>H08666D</u>	SERIAL NUMBER	<u>10269570/007</u>
CONTROL PANEL(S)	<u>AUTO START</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>50</u>	<u>60.0</u>	<u>220</u>	<u>357</u>	<u>136</u>	<u>✓</u>	<u>—</u>	<u>7.2</u>
standby/ prime+10%	<u>110%</u>	<u>60.0</u>	<u>220</u>	<u>785</u>	<u>299</u>	<u>81</u>		<u>6.6</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>102.2</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>10</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>82</u>	LUB OIL SPEC	<u>Multigrade</u>

**WIRING DIAGRAMS:**

ENGINE	<u>EM52</u>	CONTROL PANEL(S)	<u>10-170600</u>
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TESTED BY

I. JOHNSON

DATE

13/10/2010

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

PLANT NUMBER: B9888/5 CE: NO

RATED OUTPUT	KVA	<u>340</u>	RATING CLASSIFICATION	<u>PMP</u>	
	KW	<u>272</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>220/127</u>		PERFORMANCE CLASS	<u>G1</u>
	AMPS	<u>892</u>		(AS DEFINED BY ISO 8528-1)	
	HZ	<u>60</u>			
	RPM	<u>1800</u>			
GOVERNOR TYPE		<u>E.C.U.</u>	COOLING METHOD	<u>WATERCOOLED</u>	

ENGINE MAKE	<u>VOLVO</u>	BUILD NUMBER	<u>869273</u>
ENGINE MODEL	<u>TAD944GE</u>	SERIAL NUMBER	<u>7009176431</u>
ALTERNATOR MAKE	<u>STANFORD</u>		
ALTERNATOR MODEL	<u>H08666D</u>	SERIAL NUMBER	<u>0269570/005</u>
CONTROL PANEL(S)	<u>AVD SMT</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	OIL TEMP	OIL PRESS
						DEG C	DEG C	BAR
load acceptance	<u>50</u>	<u>60.0</u>	<u>220</u>	<u>357</u>	<u>136</u>	<u>✓</u>	<u>—</u>	<u>7.2</u>
standby/ prime+10%	<u>110%</u>	<u>60.0</u>	<u>220</u>	<u>785</u>	<u>299</u>	<u>82</u>	<u>✓</u>	<u>6.4</u>

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)	<u>Sea Level</u>	FUEL SPEC	<u>BS2869A2</u>
BAROMETRIC PRESSURE (kpa)	<u>102.3</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>12</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>72</u>	LUB OIL SPEC.	<u>Multigrade</u>

WIRING DIAGRAMS:	
ENGINE	<u>EMS 2</u>
CONTROL PANEL(S)	<u>10 - 170400</u>

TESTED BY I. JOHNSON

DATE 13/10/2016