

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

PLANT NUMBER: 59912/1 CE: NO

RATED OUTPUT	KVA	<u>20</u>	RATING CLASSIFICATION	<u>PDP</u>			
	KW	<u>16</u>					
	PHASE	<u>3</u>					
	VOLTS	<u>380/220</u>			PERFORMANCE CLASS	<u>G1</u>	
	AMPS	<u>30</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>PERMINS</u>	BUILD NUMBER	<u>CN65732</u>
ENGINE MODEL	<u>L40&D-22G</u>	SERIAL NUMBER	<u>U989504T</u>
ALTERNATOR MAKE	<u>STAMFORD</u>		
ALTERNATOR MODEL	<u>BC2184E</u>	SERIAL NUMBER	<u>0255518/019</u>
CONTROL PANEL(S)	<u>MANUAL 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>80</u>	<u>50.5</u>	<u>380</u>	<u>19.2</u>	<u>12.8</u>	<u>—</u>	<u>—</u>	<u>8.1</u>
standby/ prime+10%	<u>110%</u>	<u>50.0</u>	<u>380</u>	<u>26.4</u>	<u>17.6</u>	<u>81</u>	<u>—</u>	<u>4.4</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>100.2</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>9</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>93</u>	LUB OIL SPEC	<u>Multigrade</u>

WIRING DIAGRAMS:

ENGINE	<u>08-152300</u>	CONTROL PANEL(S)	<u>10-170800</u>
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TESTED BY

Z. JOHNSON

DATE 16/10/2010

Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER: E9912/2 CE: NO

RATED OUTPUT	KVA	20	RATING CLASSIFICATION	PDP
	KW	16		
	PHASE	3		
	VOLTS	380/220		
	AMPS	30		
	HZ	50		
	RPM	1500		
GOVERNOR TYPE	MECHANICAL		PERFORMANCE CLASS	G1
			(AS DEFINED BY ISO 8528-1)	
			COOLING METHOD	WATERCOOLED

ENGINE MAKE	PERMINS	BUILD NUMBER	GN65732
ENGINE MODEL	L404D-22G	SERIAL NUMBER	UC189423T
ALTERNATOR MAKE	STAMFORD	SERIAL NUMBER	0255518/02
ALTERNATOR MODEL	BCR 184E	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	80	50.5	380	19.2	12.8	—	—	5.1
standby/prime+10%	110%	50.0	380	26.4	17.6	82	—	4.7

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 ISO 8528-10)

AMBIENT TEST CONDITIONS		FUEL/OIL USED	
ALTITUDE (M)	Sea Level	FUEL SPEC	BS2869A2
BAROMETRIC PRESSURE (kpa)	102.1	DENSITY	0.84 kg/l
TEMPERATURE (Deg c)	10	CALORIFIC VALUE	42.5 MJ/kg
HUMIDITY (%)	94	LUB OIL SPEC	Multigrade

WIRING DIAGRAMS:	
ENGINE 08-152300	CONTROL PANEL(S) 10-170800

TESTED BY I. JOHNSON

DATE 16/10/2010