

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

PLANT NUMBER:

E9856/1

CE:

No

RATED OUTPUT	KVA	<u>138</u>	RATING CLASSIFICATION	<u>PRP</u>			
	KW	<u>110</u>					
	PHASE	<u>3</u>					
	VOLTS	<u>380/220</u>			PERFORMANCE CLASS	<u>G1</u>	
	AMPS	<u>210</u>					(AS DEFINED BY ISO 8528-1)
	HZ	<u>50</u>					
	RPM	<u>1500</u>					
GOVERNOR TYPE	<u>Electronic</u>	COOLING METHOD	<u>WATERCOOLED</u>				

ENGINE MAKE	<u>Perkins</u>	BUILD NUMBER	<u>Y051440</u>
ENGINE MODEL	<u>1006TAG</u>	SERIAL NUMBER	<u>U911429T</u>
ALTERNATOR MAKE	<u>Stamford</u>	SERIAL NUMBER	<u>0269527/007</u>
ALTERNATOR MODEL	<u>UC2274E</u>	SERIAL NUMBER(S)	
CONTROL PANEL(S)	<u>Manual start</u>	SERIAL NUMBER(S)	
SWITCHGEAR		SERIAL NUMBER(S)	

LOAD TEST RESULTS (AT UNITY POWER FACTOR)

LOAD TYPE	%	HZ	VOLTS	AMPS	KW	ENGINE TEMP	OIL TEMP	OIL PRESS
						DEG C	DEG C	BAR
Load acceptance	<u>65%</u>	<u>50.0</u>	<u>380</u>	<u>109</u>	<u>72</u>	<u>-</u>	<u>-</u>	<u>4.9</u>
Standby/Time+10%	<u>110%</u>	<u>50.0</u>	<u>380</u>	<u>185</u>	<u>121</u>	<u>82</u>	<u>-</u>	<u>4.3</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
(ACCORDANCE WITH ISO8528-10)

AMBIENT TEST CONDITIONS

ALTITUDE (M)	<u>Sea Level</u>	FUEL/OIL USED	FUEL SPEC	<u>BS2869A2</u>	
	BAROMETRIC PRESSURE (kpa)		<u>101.3</u>	DENSITY	<u>0.84 kg/l</u>
	TEMPERATURE (Deg c)		<u>15</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
	HUMIDITY (%)		<u>88</u>	LUB OIL SPEC	<u>Multigrade</u>

WIRING DIAGRAMS:

ENGINE		CONTROL PANEL(S)	

TESTED BY

H. Wal

DATE 11/07/2010

Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER: EA856/2 CE: No

RATED OUTPUT	KVA	138	RATING CLASSIFICATION	PRP
	KW	110		
	PHASE	3		
	VOLTS	380/220		
	AMPS	210		
	HZ	50		
	RPM	1500	PERFORMANCE CLASS (AS DEFINED BY ISO 8528-1)	G1
GOVERNOR TYPE	Electronic			COOLING METHOD

ENGINE MAKE	Perkins	BUILD NUMBER	YDS1440
ENGINE MODEL	1006TAG	SERIAL NUMBER	U911780T
ALTERNATOR MAKE	Stamford	SERIAL NUMBER	0269527/012
ALTERNATOR MODEL	UC1274E	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	65%	50.0	380	109	72	-	-	4.6
standby/prime+10%	110%	50.0	380	185	121	83	-	3.8

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)	101.3	DENSITY	0.84 kg/l	
TEMPERATURE (Deg c)	15	CALORIFIC VALUE	42.5 MJ/kg	
HUMIDITY (%)	82	LUB OIL SPEC	Multigrade	

WIRING DIAGRAMS:

ENGINE		CONTROL PANEL(S)	

TESTED BY *H. W. ...*

DATE 11/07/2010