

Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER:

EP788/1

CE:

NO

RATED OUTPUT	KVA	<u>60</u>	RATING CLASSIFICATION	<u>Prp</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>PERCINUS</u>	BUILD NUMBER	<u>DKS1436</u>
ENGINE MODEL	<u>1103A-33762</u>	SERIAL NUMBER	<u>U2450574</u>
ALTERNATOR MAKE	<u>WBE - WBE</u>		
ALTERNATOR MODEL	<u>EC032-244</u>	SERIAL NUMBER	<u>A1092757</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>85</u>	<u>50.6</u>	<u>417</u>	<u>57</u>	<u>41</u>	<u>—</u>	<u>—</u>	<u>5.3</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>4.4</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>102.2</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>10</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>94</u>	LUB OIL SPEC	<u>Multigrade</u>

WIRING DIAGRAMS:

ENGINE	<u>06-130700</u>	CONTROL PANEL(S)	<u>10-170800</u>
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TESTED BY

I. JOHNSON

DATE

04/09/2010

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

PLANT NUMBER: EP788/2 CE: NO

RATED OUTPUT	KVA	<u>60</u>	RATING CLASSIFICATION	<u>PP</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>PENINS</u>	BUILD NUMBER	<u>DK51436</u>
ENGINE MODEL	<u>1103A-33762</u>	SERIAL NUMBER	<u>U2450914</u>
ALTERNATOR MAKE	<u>WELL-1225</u>		
ALTERNATOR MODEL	<u>EC032-224</u>	SERIAL NUMBER	<u>A1092887</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>85</u>	<u>50.5</u>	<u>416</u>	<u>57</u>	<u>41</u>	<u>—</u>	<u>—</u>	<u>4.8</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>3.7</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 ISO 8528-10)

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>82</u>	LUB OIL SPEC	<u>Multigrade</u>	

WIRING DIAGRAMS:	
ENGINE	<u>06-130700</u> CONTROL PANEL(S) <u>10-170800</u>

TESTED BY I. JOHNSON

DATE 06/09/2010