

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

PLANT NUMBER: B9805/1 CE: NO

RATED OUTPUT	KVA	<u>250</u>	RATING CLASSIFICATION	<u>PNP</u>	
	KW	<u>200</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>415/260</u>		PERFORMANCE CLASS	<u>G1</u>
	AMPS	<u>349</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>PERMINS</u>	BUILD NUMBER	<u>WGHF7004</u>
ENGINE MODEL	<u>1306C-B87TAG6</u>	SERIAL NUMBER	<u>N10238U</u>
ALTERNATOR MAKE	<u>WECC-ALTE</u>		
ALTERNATOR MODEL	<u>ECO38-1LN/4</u>	SERIAL NUMBER	<u>A1098705</u>
CONTROL PANEL(S)	<u>AUTO START</u>	SERIAL NUMBER(S)	
SWITCHGEAR	<u>A-T-S</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>36</u>	<u>50.0</u>	<u>415</u>	<u>101</u>	<u>72</u>	<u>-</u>	<u>-</u>	<u>4.4</u>
standby/prime+10%	<u>110%</u>	<u>50.0</u>	<u>415</u>	<u>307</u>	<u>220</u>	<u>92</u>	<u>-</u>	<u>3.2</u>

GENERATING SET ENCLOSURE MECHANICAL PROTECTION IP  
 AVERAGE SOUND PRESSURE LEVEL (DBA AT 1 M) 85  
 (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>101.1</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>21</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>53</u>	LUB OIL SPEC	<u>Multigrade</u>

**WIRING DIAGRAMS:**

ENGINE	<u>06-136000</u>	CONTROL PANEL(S)	<u>09-166400</u>
			<u>10-173300</u>

TESTED BY H. D. ...

DATE 11/08/2010

## Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER:

B9805/2

CE:

NO

RATED OUTPUT	KVA	<u>250</u>	RATING CLASSIFICATION	<u>PNP</u>	
	KW	<u>200</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>415/240</u>		PERFORMANCE CLASS	<u>G1</u>
	AMPS	<u>349</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>PERKINS</u>	BUILD NUMBER	<u>WGD7004</u>
ENGINE MODEL	<u>1306C-E87M46</u>	SERIAL NUMBER	<u>N102524</u>
ALTERNATOR MAKE	<u>WECC-ALTE</u>		
ALTERNATOR MODEL	<u>ECO38-1LN</u>	SERIAL NUMBER	<u>A1098709</u>
CONTROL PANEL(S)	<u>AUTO START</u>	SERIAL NUMBER(S)	
SWITCHGEAR	<u>A-T-S</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>36</u>	<u>50.0</u>	<u>415</u>	<u>101</u>	<u>72</u>	<u>-</u>	<u>-</u>	<u>4.4</u>
standby/ prime+10%	<u>110%</u>	<u>50.0</u>	<u>415</u>	<u>307</u>	<u>220</u>	<u>91</u>	<u>96</u>	<u>3.3</u>

GENERATING SET ENCLOSURE MECHANICAL PROTECTION

IP  
85

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>101.0</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>20</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>60</u>	LUB OIL SPEC	<u>Multigrade</u>

### WIRING DIAGRAMS:

ENGINE	<u>06-136000</u>	CONTROL PANEL(S)	<u>09-166400</u> <u>10-173300</u>
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TESTED BY

I. JOHNSON

DATE

11/08/2010

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

PLANT NUMBER: EG805/3 CE: NO

RATED OUTPUT	KVA	<u>250</u>	RATING CLASSIFICATION	<u>PNP</u>	
	KW	<u>200</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>415/240</u>		PERFORMANCE CLASS	<u>G1</u>
	AMPS	<u>349</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>PENKINS</u>	BUILD NUMBER	<u>WSS362</u>
ENGINE MODEL	<u>1306C-B87MG6</u>	SERIAL NUMBER	<u>N1556685</u>
ALTERNATOR MAKE	<u>WECC-ALTE</u>		
ALTERNATOR MODEL	<u>ECO38-1LN/4</u>	SERIAL NUMBER	<u>A1098659</u>
CONTROL PANEL(S)	<u>AUTO START</u>	SERIAL NUMBER(S)	
SWITCHGEAR	<u>A-T-S</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>36</u>	<u>50.0</u>	<u>415</u>	<u>101</u>	<u>72</u>	<u>-</u>	<u>-</u>	<u>4.3</u>
standby/ prime+10%	<u>110%</u>	<u>50.0</u>	<u>415</u>	<u>307</u>	<u>220</u>	<u>90</u>	<u>-</u>	<u>3.0</u>

GENERATING SET ENCLOSURE MECHANICAL PROTECTION

IP  
85

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>101.0</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>21</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>49</u>	LUB OIL SPEC	<u>Multigrade</u>

**WIRING DIAGRAMS:**

ENGINE	<u>06-136000</u>	CONTROL PANEL(S)	<u>09-166400</u> <u>10-173300</u>
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TESTED BY

*H. Wall*

DATE 11/08/2010