

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

PLANT NUMBER:

E9714/1

CE:

NO

RATED OUTPUT	KVA	<u>30</u>	RATING CLASSIFICATION	<u>PRP</u>	
	KW	<u>24</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>400/230</u>		PERFORMANCE CLASS	<u>GI</u>
	AMPS	<u>43</u>			
	HZ	<u>50</u>			
	RPM	<u>1500</u>			
GOVERNOR TYPE			<u>MECHANICAL</u>	COOLING METHOD	<u>WATERCOOLED</u>

ENGINE MAKE	<u>PERKINS</u>	BUILD NUMBER	<u>DJS1434</u>
ENGINE MODEL	<u>1103A-33GT</u>	SERIAL NUMBER	<u>U241605U</u>
ALTERNATOR MAKE	<u>MECL-MADE</u>		
ALTERNATOR MODEL	<u>EC028-VL4</u>	SERIAL NUMBER	<u>17701417456</u>
CONTROL PANEL(S)	<u>AUTOSAVE</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>100</u>	<u>50.4</u>	<u>400</u>	<u>31</u>	<u>21.6</u>	<u>-</u>	<u>-</u>	<u>4.8</u>
standby/prime+10%	<u>110%</u>	<u>50.0</u>	<u>400</u>	<u>38</u>	<u>26.4</u>	<u>81</u>	<u>-</u>	<u>3.9</u>

GENERATING SET ENCLOSURE MECHANICAL PROTECTION

IP

AVERAGE SOUND PRESSURE LEVEL (DBA AT 1 M)

75

(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>101.9</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>24</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>57</u>	LUB OIL SPEC	<u>Multigrade</u>

WIRING DIAGRAMS:

ENGINE	<u>06-130700</u>	CONTROL PANEL(S)	<u>10-170300</u>
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TESTED BY

I. JOHNSON

DATE 19/07/2010

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

PLANT NUMBER:

B9714/2

CE:

ND

RATED OUTPUT	KVA	<u>30</u>	RATING CLASSIFICATION	<u>PRP</u>	
	KW	<u>24</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>400/230</u>		PERFORMANCE CLASS	<u>CA</u>
	AMPS	<u>43</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>PERKINS</u>	BUILD NUMBER	<u>DJS1434</u>
ENGINE MODEL	<u>1103A-33G</u>	SERIAL NUMBER	<u>U241016U</u>
ALTERNATOR MAKE	<u>WECC - WTE</u>		
ALTERNATOR MODEL	<u>EC028-VL4</u>	SERIAL NUMBER	<u>0001417457</u>
CONTROL PANEL(S)	<u>AVDSONET</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>90</u>	<u>50.4</u>	<u>400</u>	<u>31</u>	<u>21.6</u>	<u>—</u>	<u>—</u>	<u>4.4</u>
standby/ prime+10%	<u>110%</u>	<u>50.0</u>	<u>400</u>	<u>38</u>	<u>26.4</u>	<u>82</u>	<u>—</u>	<u>4.1</u>

GENERATING SET ENCLOSURE MECHANICAL PROTECTION

IP
75

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>101.7</u>	DENSITY	<u>0.84 kg/l</u>
TEMPERATURE (Deg c)	<u>25</u>	CALORIFIC VALUE	<u>42.5 MJ/kg</u>
HUMIDITY (%)	<u>54</u>	LUB OIL SPEC	<u>Multigrade</u>

WIRING DIAGRAMS:

ENGINE	<u>06-130700</u>	CONTROL PANEL(S)	<u>10-170300</u>
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I. JOHNSON

DATE 19/07/2010