

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

PLANT NUMBER: E9729 CE: No

RATED OUTPUT	KVA	<u>200</u>	RATING CLASSIFICATION	<u>PRP</u>	
	KW	<u>160</u>			
	PHASE	<u>3</u>			
	VOLTS	<u>415/240</u>		PERFORMANCE CLASS	<u>G1</u>
	AMPS	<u>279</u>			(AS DEFINED BY ISO 8528-1)
	HZ	<u>50</u>			
	RPM	<u>1500</u>			
GOVERNOR TYPE	<u>ECM</u>	COOLING METHOD	<u>WATERCOOLED</u>		

ENGINE MAKE	<u>Perkins</u>	BUILD NUMBER	<u>W55360</u>
ENGINE MODEL	<u>1306C-E87TAG3</u>	SERIAL NUMBER	<u>N1561270</u>
ALTERNATOR MAKE	<u>Mecc Alte</u>		
ALTERNATOR MODEL	<u>ECO 38-2SN/4</u>	SERIAL NUMBER	<u>A1099041</u>
CONTROL PANEL(S)	<u>Autostart</u>	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	<u>45%</u>	<u>50.0</u>	<u>415</u>	<u>100</u>	<u>72</u>	<u>34</u>	<u>-</u>	<u>4.3</u>
standby/ prime+10%	<u>110%</u>	<u>50.0</u>	<u>415</u>	<u>245</u>	<u>176</u>	<u>89</u>	<u>-</u>	<u>3.2</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>101.1</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	<u>06-136000</u>	CONTROL PANEL(S)	<u>09-166400</u>

TESTED BY H. Dahl

DATE 22/07/2010