

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

PLANT NUMBER: E9726 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>Perkins</u> | BUILD NUMBER | <u>Dks1436</u> |
| ENGINE MODEL | <u>1103A-33TG2</u> | SERIAL NUMBER | <u>U246414U</u> |
| ALTERNATOR MAKE | <u>Mec Alte</u> | | |
| ALTERNATOR MODEL | <u>ECO 32-2LN/4</u> | SERIAL NUMBER | <u>A1092756</u> |
| CONTROL PANEL(S) | <u>Manual start</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>85%</u> | <u>50.6</u> | <u>415</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>4.1</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>102.1</u> | DENSITY | <u>0.84 kg/l</u> |
| TEMPERATURE (Deg c) | <u>13</u> | CALORIFIC VALUE | <u>42.5 MJ/kg</u> |
| HUMIDITY (%) | <u>91</u> | LUB OIL SPEC | <u>Multigrade</u> |

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

TESTED BY H. Wal

DATE 13/09/2010