

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

PLANT NUMBER: EQ900 CE: NO

| | | | | | |
|---------------|---------------|----------------|-----------------------|----------------------------|-----------|
| RATED OUTPUT | KVA | <u>350</u> | RATING CLASSIFICATION | <u>PRP</u> | |
| | KW | <u>280</u> | | | |
| | PHASE | <u>3</u> | | | |
| | VOLTS | <u>415/240</u> | | PERFORMANCE CLASS | <u>G1</u> |
| | AMPS | <u>487</u> | | (AS DEFINED BY ISO 8528-1) | |
| | HZ | <u>50</u> | | | |
| | RPM | <u>1500</u> | | | |
| GOVERNOR TYPE | <u>B.C.U.</u> | COOLING METHOD | <u>WATERCOOLED</u> | | |

| | | | |
|------------------|----------------------|------------------|-------------------|
| ENGINE MAKE | <u>PERKINS</u> | BUILD NUMBER | <u>TGBPSU12</u> |
| ENGINE MODEL | <u>2206A-E13TAG2</u> | SERIAL NUMBER | <u>U179467U</u> |
| ALTERNATOR MAKE | <u>WECC-ALTE</u> | | |
| ALTERNATOR MODEL | <u>EC038-3L/N4</u> | SERIAL NUMBER | <u>0001433475</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>60</u> | <u>50.0</u> | <u>415</u> | <u>234</u> | <u>168</u> | <u>—</u> | <u>—</u> | <u>4.4</u> |
| standby/ prime+10% | <u>110%</u> | <u>50.0</u> | <u>415</u> | <u>429</u> | <u>308</u> | <u>87</u> | <u>—</u> | <u>2.7</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 ISO8528-10)

| AMBIENT TEST CONDITIONS | | FUEL/OIL USED | |
|---------------------------|------------------|-----------------|-------------------|
| ALTITUDE (M) | <u>Sea Level</u> | FUEL SPEC | <u>BS2869A2</u> |
| BAROMETRIC PRESSURE (kpa) | <u>99.7</u> | DENSITY | <u>0.84 kg/l</u> |
| TEMPERATURE (Deg c) | <u>17</u> | CALORIFIC VALUE | <u>42.5 MJ/kg</u> |
| HUMIDITY (%) | <u>77</u> | LUB OIL SPEC | <u>Multigrade</u> |

| WIRING DIAGRAMS: | |
|------------------|---------------------|
| ENGINE | <u>2000 Diagram</u> |
| CONTROL PANEL(S) | <u>09-162200</u> |

TESTED BY I. JOHNSON DATE 04/10/2010