

TO SCAN

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

PLANT NUMBER: E9875/1 CE: NO

| | | | | | |
|---------------|---------------|----------------|-----------------------|----------------------------|-----------|
| RATED OUTPUT | KVA | <u>500</u> | RATING CLASSIFICATION | <u>PRP</u> | |
| | KW | <u>400</u> | | | |
| | PHASE | <u>3</u> | | | |
| | VOLTS | <u>400/230</u> | | PERFORMANCE CLASS | <u>G1</u> |
| | AMPS | <u>722</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>PENICINS</u> | BUILD NUMBER | <u>MGBFS120</u> |
| ENGINE MODEL | <u>2506A-E15TAG2</u> | SERIAL NUMBER | <u>U18860U</u> |
| ALTERNATOR MAKE | <u>MECL-ALTE</u> | SERIAL NUMBER | <u>0001420602</u> |
| ALTERNATOR MODEL | <u>ECOL40-3S/4</u> | SERIAL NUMBER(S) | |
| CONTROL PANEL(S) | <u>FIBRE ISSUE</u> | SERIAL NUMBER(S) | |
| SWITCHGEAR | <u>AUTOSYNCH/LOADSHARER</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>400</u> | <u>347</u> | <u>240</u> | <u>-</u> | <u>-</u> | <u>5.4</u> |
| standby/ prime+10% | <u>110%</u> | <u>50.0</u> | <u>400</u> | <u>635</u> | <u>440</u> | <u>88</u> | <u>-</u> | <u>4.4</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>101.2</u> | DENSITY | <u>0.84 kg/l</u> |
| TEMPERATURE (Deg c) | <u>12</u> | CALORIFIC VALUE | <u>42.5 MJ/kg</u> |
| HUMIDITY (%) | <u>94</u> | LUB OIL SPEC | <u>Multigrade</u> |

WIRING DIAGRAMS:

| | | | |
|--------|-----------------|------------------|-----------------|
| ENGINE | <u>TPD1615E</u> | CONTROL PANEL(S) | <u>SB18907A</u> |
|--------|-----------------|------------------|-----------------|

TESTED BY: I. JOHNSON DATE 30/09/2010

Generating Set Functional Test Report

In accordance with ISO 8528 - 6 2005

PLANT NUMBER: E9875/2 CE: NO

| | | | | |
|---------------|-------|---------|--|-------------|
| RATED OUTPUT | KVA | 500 | RATING CLASSIFICATION | PDP |
| | KW | 400 | | |
| | PHASE | 3 | | |
| | VOLTS | 400/230 | | |
| | AMPS | 722 | | |
| | HZ | 50 | | |
| | RPM | 1500 | | |
| GOVERNOR TYPE | | | COOLING METHOD | WATERCOOLED |
| | | | PERFORMANCE CLASS G1 (AS DEFINED BY ISO 8528-1) | |

| | | | |
|------------------|-----------------------|------------------|------------|
| ENGINE MAKE | PERMINS | BUILD NUMBER | MCLBFS100 |
| ENGINE MODEL | 2506A-B15PAGE2 | SERIAL NUMBER | UL8863U |
| ALTERNATOR MAKE | WECC-ALTE | SERIAL NUMBER | 0001423507 |
| ALTERNATOR MODEL | E0400-3S/4 | SERIAL NUMBER(S) | |
| CONTROL PANEL(S) | FABE ISSUE | SERIAL NUMBER(S) | |
| SWITCHGEAR | AUTOSYNCH/LOADSHARING | 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 | 60 | 50.0 | 400 | 347 | 240 | - | - | 5.3 |
| standby/prime+10% | 110% | 50.0 | 400 | 635 | 440 | 87 | - | 4.2 |

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) | Sea Level | FUEL SPEC | BS2869A2 | |
| BAROMETRIC PRESSURE (kpa) | 101.2 | DENSITY | 0.84 kg/l | |
| TEMPERATURE (Deg c) | 12 | CALORIFIC VALUE | 42.5 MJ/kg | |
| HUMIDITY (%) | 94 | LUB OIL SPEC | Multigrade | |

| WIRING DIAGRAMS: | |
|------------------|----------|
| ENGINE | TPD1615E |
| CONTROL PANEL(S) | SB18907A |

TESTED BY: I. JOHNSON

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