

## Raysun Capella Plus

### Premium quality turbine oil for industrial applications

Raysun Capella Plus series are premium quality turbine oils specially designed to satisfy the demanding lubrication requirements of steam turbines in today's power industry. These oils are formulated with high quality severely hydrocracked API Group III base oils and a proprietary Ashless additive package containing anti-oxidants, corrosion inhibitors and metal deactivators. These oils possess outstanding thermal and oxidation stability, excellent water separability, superior rust and corrosion inhibition, low foaming tendency, good air release properties and resistance to chemical degradation to provide excellent equipment protection, reliable operation, with reduced down-time and extended service life

#### Advantages

- Outstanding thermal and oxidation stability prevents sludge formation, controls deposits and minimizes oil degradation leading to reliable operation
- Excellent water separation capability resists formation of emulsion and leads to easy removal of excess water from the lubrication system
- Effective rust and corrosion inhibitors provide long term protection to critical system components
- Good air release properties and foam control avoid erratic operation and pump cavitation leading to trouble free operation

#### Applications

- Power generation steam turbines
- Industrial steam turbines
- Applications requiring high quality rust and oxidation (R&O) inhibited oils
- Turbo compressors
- Suitable for use where low TAN is required
- Water turbines and non-g geared gas turbines

#### Specification

- (DIN 51515 Part 1 (TD
- (ASTM D 4304, Type I (non-EP
- British Standard BS 489
- Alstom HTGD 90117 V 0001 S
- GEK 32568 A/C
- Siemens TLV 9013-04
- CEGB Standard 207001
- Brown Boveri HTGD 90117
- U.S. Steel 120



## Raysun Capella Plus

| ISO Viscosity Grades |                   |                   | ASTM Method | Specification          |
|----------------------|-------------------|-------------------|-------------|------------------------|
| 68                   | 46                | 32                |             |                        |
| 0.868                | 0.865             | 0.862             | D 1298      | Density @ 15°C, kg/l   |
| 68                   | 46                | 32                | D 445       | Viscosity @40 °C, cSt. |
| 120                  | 120               | 120               | D 2270      | Viscosity Index        |
| 244                  | 224               | 218               | D 92        | Flash Point, °C        |
| -27                  | -27               | -30               | D 97        | Pour Point, °C         |
| Pass                 | Pass              | Pass              | D 665A/B    | Rust Test              |
| 1a                   | 1a                | 1a                | D 130       | Copper Corrosion       |
| <0.1                 | <0.1              | <0.1              | D 974       | Acid Number, mg KOH/g  |
| 3                    | 3                 | 2                 | D 3427      | Air Release, minutes   |
| 1600 <sup>+</sup>    | 1600 <sup>+</sup> | 1600 <sup>+</sup> | D 2272      | RPVOT, minutes         |

Note: "All of the results are typical and the results of each batch are presented in the COA sheet."