

## UNITED VESTA GAS TURBINE OIL

United Vesta Gas Turbine Oils is a specially inhibited turbine oil designed for the lubrication of modern, high severity, heavy-duty industrial gas turbines. It is formulated from severely refined, turbine-grade base stocks and an advanced oxidation, rust and foam inhibitor system. The high performance, ashless, low volatility anti-oxidant package imparts exceptional oxidation stability for the severest applications.

United Vesta Gas Turbine Oils are suitable in Heavy-duty, stationary industrial gas turbines, particularly where reservoir oil temperatures are up to 100°C, and gas temperatures in the bearing housings may reach higher level. The anti-oxidation properties plus the other features incorporated into United Vesta Gas Turbine Oils render them an outstanding choice for turbine use.

United Vesta Gas Turbine Oils find applications in reciprocating compressors, hydraulic systems where anti-wear additives are unacceptable, gear reducers requiring superior rust and oxidation inhibited lubricants, high temperature circulating oil systems, machine tools and electric motor and pump ring oil bearings.

### APPLICATIONS / BENEFITS

- Outstanding long-term oxidation stability.
- Exceptional protection against rust and corrosion.
- Extensive service life capacity.
- Unsurpassed water separation properties.
- Minimum maintenance and downtime.

### TYPICAL CHARACTERISTICS

| TEST DESCRIPTION                | METHOD      | TYPICAL RESULTS |       |       |
|---------------------------------|-------------|-----------------|-------|-------|
| ISO Viscosity Grade             | -           | 32              | 46    | 68    |
| Specific Gravity @ 15 °C        | ASTM D 4052 | 0.862           | 0.865 | 0.870 |
| Flash Point, °C                 | ASTM D 92   | 220             | 228   | 230   |
| Pour Point, °C                  | ASTM D 97   | -18             | -18   | -18   |
| Kinematic Viscosity @40°C (cSt) | ASTM D 445  | 31.5            | 44.2  | 68.1  |
| @100°C (cSt)                    | ASTM D 445  | 5.62            | 7.09  | 9.78  |
| Viscosity Index                 | ASTM D 2270 | 118             | 120   | 125   |
| Color                           | ASTM D 1500 | <0.5            | <0.5  | <0.5  |

MEETS THE REQUIREMENTS OF

- Alstom HGD 90117T
- ALSTOM HTGD 90117 (formerly ALSTOM NBA P 50001A)
- ANSI/AGMA 9005-D94 (R&O grades)
- BS 489
- Cincinnati Machine P-38/54/55/57 (HL)
- Cincinnati Machine P-39
- DIN 51506 (VDL)
- DIN 51515 Part 1 (TD)
- DIN 51515 Part 2 (TG)
- DIN 51517 Part 1/2 (C/CL)
- DIN 51524 Part 1 (HL)
- GE GEK 101941 A
- GE GEK 107395 A
- GE GEK 27070
- GE GEK 28568 A
- GE GEK 32568 F
- GE GEK 28143 B
- GE GEK 32568 F
- GE GEK 46506 D
- GM LJ-03/04/06/10-1-97
- GM LJ-03/04/06/10-2-97
- GM LS-01/02/03-1-97
- MAN Turbo SPD 10000242284
- MIL-PRF-17331 J
- MIL-PRF-17672 D
- Morgan Worchester Advanced Lubricant
- Morgan Worchester Standard Lubricant
- SEB 181 225
- SIEMENS TLV 9013
- SIEMENS TLV 901304
- SOLAR ES 9-224 (Class I/Class II )
- SOLAR ES 9-224W Class II
- VN 108