product and technical data

BP Turbo Oil 2380

Aero Derived Gas Turbine Lubricant

Description

BP Turbo Oil 2380 is a 5 cSt synthetic lubricant for use in all aero-derived gas turbines used in offshore, marine and power generation applications. This lubricant provides a balanced combination of thermal and oxidative stability, load carrying capacity and low volatility and has the best low temperature flow characteristics of all 5 cSt turbine oils currently available. The performance advantages of BP Turbo Oil 2380 are achieved by careful selection and balance of polyester base stocks and unique additive packages.

Application

- Aero-derivative gas turbines
- Associated hydraulic starting systems

Key Benefits

Due to its trouble free performance under most operating conditions, BP Turbo Oil 2380 is the most widely used gas turbine lubricant in the world. This proven performance is summarised in the following key benefits:-

- Cleanliness: Minimum formation of varnish and sludge deposits over long periods of operation
- Seal Material Compatibility: Very benign to seal materials commonly used in gas turbines
- Load Carrying Capacity: BP Turbo Oil 2380 is amongst the best of its class and provides excellent protection to bearings, gears and other highly loaded lubricated surfaces
- Viscosity: BP Turbo Oil 2380 has the best low temperature viscosity characteristics amongst all 5 cSt oils

Performance Levels & OEM Approvals

- Approved against US Military MIL-PRF23699F-STD
- Approved against UK specification DEF STAN 91-101/2
- Approved by the following engine manufacturers:
  - Rolls-Royce Ltd
    - RB 211-22 & -24
    - Avon
    - Olympus A, B & C
  - R-R Allison
    - 501K Series
  - General Electric Co
    - LM 1600 / 2500 / 5000 / 6000

Physical Characteristics

	VALUE	TEST METHOD
Density @ 15°C, kg/l	ASTM D1298	0.975
Kinematic Viscosity, cSt @ 100 °C @ 40 °C @ -40 °C	 ASTM D445 ASTM D445 ASTM D2532	 4.97 24.2 7950
Pour Point, °C	ASTM D97	-57
Flash Point, °C	ASTM D92	265
Total Acid N°, mgKOH/g	ASTM D664	0.43
Evaporative Loss, % (6.5h,204 °C)	ASTM D972	3.0
Foaming Characteristics Tendency / Stability, ml Sequence 1 @ 24 °C Sequence 2 @ 93 °C Sequence 3 @ 24 °C	ASTM D892	 9ml / nil 8ml / nil 8ml / nil

Note: The above figures are typical of those obtained with normal production tolerance and do not constitute a specification.

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