

BP Turbo Oil 2197

Aero Derived Gas Turbine Lubricant

Description

BP Turbo Oil 2197 is a synthetic ester based 5 cSt High Thermal Stability (HTS) lubricant intended for the lubrication of aero-derived gas turbines operating in industrial power generation, offshore and marine applications. It is a latest generation synthetic

lubricant that is formulated to provide exceptional high temperature cleanliness in vapour mist and liquid film areas as well as having outstanding oxidative, thermal and hydrolytic stability.

Application

- Aero-derivative gas turbines
 - Associated hydraulic starting systems
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Key Benefits

BPTO 2197 is available globally and combines excellent stability, very low coking tendency and proven performance to provide the following key benefits:-

- Excellent thermal and oxidative stability giving longer life due to outstanding resistance to changes in viscosity and acidity
 - Superior hydrolytic stability, which leads to a greater resistance to acid formation due to hydrolysis
 - Best in class high temperature cleanliness resulting in minimum formation of varnish and sludge deposits in high temperature applications, even over long periods of use
 - Outstanding engine cleanliness: reduced or no carbon deposits in oil supply and scavenge tubes and bearing compartments. Potential for reduced oil filter replacement
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Performance Levels & OEM Approvals

- Approved against US Military MIL-PRF23699F-HTS
- R-R Allison
 - 501K Series
- Approved by the following engine manufacturers:
 - Rolls-Royce Ltd
 - RB 211-22 & -24
 - Trent
 - General Electric Co
 - LM 1600 / 2500 / 5000 / 6000



Physical Characteristics

	VALUE	TEST METHOD
Density @ 15°C, kg/l	ASTM D1298	0.996
Kinematic Viscosity, cSt @ 100 °C @ 40 °C @ -40 °C	ASTM D445 ASTM D445 ASTM D-2532	5.28 27.0 12500
Pour Point, °C	ASTM D97	-57
Flash Point, °C	ASTM D92	262
Total Acid N°, mgKOH/g	ASTM D664	0.36
Evaporative Loss, % (6.5h, 204 °C)	ASTM D972	2.3
Foaming Characteristics Tendency / Stability, ml Sequence 1 @ 24 °C Sequence 2 @ 93 °C Sequence 3 @ 24 °C	ASTM D892	10ml / nil 10ml / nil 10ml / nil

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



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