



# BP Turbo Oil 2197

## Description

- BP Turbo Oil 2197 is a latest generation 5 cSt High Thermal Stability (HTS) synthetic lubricant that is approved against US military specification MIL-PRF-23699F HTS.
- It is formulated to provide exceptional high temperature cleanliness in vapor mist and liquid film areas, as well as outstanding oxidative, thermal and hydrolytic stability. It provides exceptional performance in the most demanding existing turbines as well as new generation turbines just entering service.

## Applications & Approvals

- BP Turbo Oil 2197 is our newest turbo oil, designed to be a "fleet-wide" oil especially suitable for hot aircraft and aero-derived engines.
- BP Turbo Oil 2197 has been approved by a wide range of engine and accessory manufacturers for their applicable equipment, including:

Rolls-Royce Ltd, Rolls-Royce Allison, GE, Pratt & Whitney, Pratt & Whitney Canada, Hamilton Sundstrand, Honeywell, CFMI, IAE, MTU, Solar and Turbomeca.

Please contact our local representatives shown in the Air BP website for approval details.

## Features & Benefits

- BP Turbo Oil 2197 entered commercial airline service in mid-1995 and has already accumulated over 200 million hours of successful experience in more than 20,000 units of popular engine and accessory models.
- The benefits operators can expect from this oil include excellent Thermal and Oxidation Stability, outstanding high temperature cleanliness and Superior Hydrolytic Stability.
- Users of this oil have been enjoying cleaner engines, i.e., less or no carbon deposits in oil supply and scavenge tubes or bearing compartments and some of them also experience less frequent oil filter replacement.

## Storage & Shelf Life

- The shelf life of BP Turbo Oil 2197 can extend beyond ten years when stored in original, unopened quart cans under recommended storage conditions, i.e. in a well ventilated and covered area away from extreme heat and moisture etc. 55-gallon drums and 5-gallon pails have an expected shelf life of three years minimum.
- For all package styles, shelf life can be increased significantly beyond those stated above, depending upon storage conditions.

Please contact your Air BP representative if you have any questions about product usability.



# BP Turbo Oil 2197

## Typical Properties

BP Turbo Oil 2197	Test method	Results
Density @ 15°C, Kg/l	ASTM D1298	0.9968
Kinematic Viscosity, cSt, mm <sup>2</sup> /sec @ 100°C @ 40°C @ -40°C	ASTM D445 ASTM D445 ASTM D-2532	5.28 26.98 12,539
Pour Point, °C	ASTM D97	-57
Flash Point, °C	ASTM D92	262
Total Acid N <sup>o</sup> , mgKOH/g	SAE ARP5088	0.36
Evaporative Loss, % (6.5h, 204°C)	ASTM D972	2.30
Foaming Volume, ml/Vol @ 1 min setting Sequence 1 @ 24°C Sequence 2 @ 93°C Sequence 3 @ 24°C	ASTM D892	10/0 10/0 10/0
Thermal Stability & Corrosivity @ 274°C Viscosity, 40°C Total Acid Number, mg KOH/g Metal Weight, mg/cm <sup>2</sup>	FED-STD-791, 3411	0.37 1.08 -0.154
Corrosion and Oxidative Stability, 72 hrs @ 204°C Viscosity, 40°C, % Total Acid Number, mg KOH/g Metal Weight Change, mg/cm <sup>2</sup> Steel Silver Aluminum Magnesium Copper Sludge, mg/100mg oil	FED-STD-791, 5308	14.75 0.96 0.011 -0.017 0.009 -0.012 -0.076 0.37
Sediment Visual Undissolved Water Sediment, 1.2 µm filter, mg/L Metal Weight, mg/cm <sup>2</sup>	FED-STD-791, 3010	none 0.85 0.12

Health, safety and environmental information are provided for this product in the Materials Safety Data Sheet. This gives details of potential hazards, precautions and First Aid measures, together with environmental effects and disposal of used products. Before using the product other than directed, please contact Air BP for consultation.

Created: January 31, 2005