



BP Turbo Oil 274

Description

- BP Turbo Oil 274 is a 7.5 cSt synthetic lubricant.
- BP Turbo Oil 274 is approved against UK military specification DEF STAN 91-98/1 (DERD 2487). It provides good high temperature performance and load-carrying ability.

Applications & Approvals

- BP Turbo Oil 274 is now being used by over 50 airlines throughout the world, representing near two-thirds of the world's commercial requirement for 7.5 cSt turbo oils, including Rolls-Royce Dart engines.
- BP Turbo Oil 274 has been approved by a wide range of engine and accessory manufacturers for their applicable equipment, including:

Rolls-Royce Ltd, Dowty Rotol, Hawker Siddeley Dynamics, Solar and Pratt & Whitney Canada.

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

Features & Benefits

- The performance advantages of BP Turbo Oil 274 are achieved only by careful selection and balance of base stocks and additives to provide the desired performance.
- BP Turbo Oil 274 provides load carrying ability well in excess of requirements established by the engine and accessory manufacturers.
- Other characteristic advantages operators can expect from this product include: minimum carbon deposits, high degree of oxidation resistance, good compatibility with popular metals and elastomers used in gas turbine engines.

Storage & Shelf Life

- The shelf life of BP Turbo Oil 274 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.



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Typical Properties

BP Turbo Oil 274	Test Method	Result
Density @ 15°C, Kg/l	ASTM D1298	0.9516
Viscosity, cSt, mm ² /sec		
@ 100°C	ASTM D445	7.6
@ 40°C	ASTM D445	33.3
@ -40°F, cSt (after 35 minutes)	Part 4.9, DERD 2487	11,000
Pour Point, °F	ASTM D97	-75
Flash Point, °F	ASTM D92	455
Total Acid N ^o , mgKOH/g	ASTM D974	0.15
Elastomer swell, 192 hrs @150°C in vac., % vol.	DERD2487	23.2
Foaming Characteristics	ASTM D892	
Sequence 1 @ 24°C		5/0
Sequence 2 @ 93°C		20/0
Sequence 3 @ 24°C		10/0
Ryder gear rating, absolute lbs/in	D1947	3200
IAG-gear test	166	
2000 RPM, % of reference		101.4
6000 RPM, % of reference		106.3
Corrosion and Oxidative Stability, 22 hrs @140°C	Appendix E of DERD 2487	
Cadmium plate steel, wt. change mg/cm ²		-0.04
Viscosity @ 100°F, % change		+3.8
Acidity, mg KOH/g		Nil
Copper, wt. change mg/cm ²		Nil
Viscosity @ 100°F, % change		+4.3
Acidity, mg KOH/g		+0.08

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.

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