



BP Turbo Oil 25

Description

- BP Turbo Oil 25 is a 5 cSt high load carrying synthetic lubricant which was developed to meet the requirements of supersonic aircraft engines.
- BP Turbo Oil 25 is approved against US military specification DOD-L-85734(AS), and UK military specification DEF STAN 91-100/1 (DERD 2497).

Applications & Approvals

- The high gear load carrying ability of BP Turbo Oil 25 makes it a better choice for helicopter transmission application.
- BP Turbo Oil 25 has been approved by a wide range of engine and accessory manufacturers for their applicable equipment, including:

GE, MTU, Turbomeca, Pratt & Whitney, Volvo Flygmotor, Rolls-Royce Ltd, Honeywell, Lucas Aerospace Ltd and Hamilton Sundstrand.

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

Features & Benefits

- BP Turbo Oil 25 incorporates high oxidation resistance to minimize formation of carbon, coke and sludge.
- It also provides high load-carrying ability to satisfy the requirements of highly loaded gears and bearings operating in very demanding environment.
- This oil has the best load-carrying ability in its class.

Storage & Shelf Life

- The shelf life of BP Turbo Oil 25 can extend beyond three 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.
- 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 25	Test Method	Result
Density @ 15°C, Kg/l	ASTM D1298	0.9950
Viscosity, cSt, mm ² /sec		
@ 98.9°C	ASTM D445	5.16
@ 37.8°C	ASTM D445	27.2
@ -40°C	ASTM D-2532	8990
Pour Point, °C	ASTM D97	-60
Flash Point, °C	ASTM D92	255
Total Acid N ^o , mgKOH/g	ASTM D664	0.38
Evaporative Loss, % (6.5h, 204°C)	ASTM D972	1.8
Foaming Characteristics	ASTM D892	
Sequence 1 @ 24°C		5/0.05
Sequence 2 @ 93°C		5/0.03
Sequence 3 @ 24°C		5/0.08
Ryder gear	FED. TEST METHOD	
Av. Rel. rating, % reference oil	6508	167
No. of determinations		2
Ref. Oil, av. Rating, lbs./in.		2400
Rubber-Swell, %	Appendix of DOD	
H Rubber, 72h @ 70°C	85734 Spec.	14
F Rubber, 72h @ 204°C		14
Tensile strength loss, %		57.6
Corrosion and Oxidative Stability, 72 hrs. @175°C	Part 4.5.4 of DOD 85734 Spec.	
Fe, mg/cm ²		0
Ag, mg/cm ²		-0.07
Al, mg/cm ²		0
Mg, mg/cm ²		+0.08
Cu, mg/cm ²		+0.05
Vis. change @ 38°C, %		+10.3
TAN change, mgKOH/g		+0.56
Sludge, mg/100ml		0.1

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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