

JET AIRCRAFT SYNTHETIC OIL

O-150 – AIR 3514/A Iss.2

Description

Turbonycoil 13 B is a lubricating oil with a viscosity of 3 cSt at 100°C. It is based on a synthetic ester and contains anti-oxidant, anti-wear and anti-corrosion additives.

Application

Turbonycoil 13 B has been specially developed to lubricate aircraft turbine engines equipped with a total loss lubrication system such as SNECMA ATAR, fitted on Dassault Mirage III, IV, F1 and 5 ; Super Etendard.

It is also approved for use on SNECMA M53 engine (Dassault Mirage 2000 series) and many Turbomeca engines (Artouste II and III ; Astazou II ; IV M ; XIV ; XVI, Makila, Arriel, Turmo IV, TM 319 and TM 333). These engines power a large number of civil and military helicopters.



Characteristic	Unit	Result	Limit*	Test method
- Appearance	-	conform	bright limpid liquid	visual examination
- Density at 20°C	kg/dm ³	0.942	report	ASTM D 4052
- Kinematic viscosity at 100°C 40°C - 54°C	mm ² /s	3.29 12.8 12418	min. 3 report max. 17000	ASTM D 445
- Flash point	°C	228	mini. 210	ASTM D 92
- Foaming characteristics – Foam volume (after) at 80°C 5 minutes aeration time for total foam collapse	cm ³ s	20 5	max. 100 max. 60	FTM-S-791-3213
- Evaporation losses – Mass fraction 6 h 30 at 204°C	%	23.2	max. 30	ASTM D 972
- Acid number (pH = 11)	mg KOH/g	0.02	max. 0.30	ASTM D 664
- Lead corrosion (after 1 h at 163°C)	mg/cm ²	- 0.2	max. +/- 1	AIR 1651/A
- Water content	mg/kg	300	max. 500	IT-CTR101/A
- Brass and silver corrosion after 50 h at 232°C Brass Silver	mg/cm ² mg/cm ²	0.01 0.00	max. +/- 0.20 max. +/- 0.20	AIR 1651/A
- Storage stability at 110°C Lead corrosion 1 h at 163°C After 48 h After 168 h	mg/cm ²	- 0.2 - 0.6	max. +/- 4.0 max. +/- 23.0	AIR 1651/A
- Oxidation resistance – Test 96 h at 175°C Viscosity change at 40°C Acid number change Sediment content Weight change Copper test tube Steel test tube Aluminium test tube Magnesium test tube Silver test tube	% mg KOH/g mg/100 cm ³ mg/cm ²	+ 8.7 1.3 5 - 0.14 - 0.02 0.00 0.00 0.00	- 5 to + 15 max. 2.0 max. 10 max. +/- 0.4 max. +/- 0.2 max. +/- 0.2 max. +/- 0.2 max. +/- 0.2	AIR 1651/A
- Elastomer compatibility NBRH after 168 h at 70°C	% volume	+ 23.2	+ 12 to + 35	AIR 1651/A
- Metallic components content Aluminium Steel Chromium Silver Copper Tin Magnesium Nickel Silicon Titanium Lead Molybdenum	ppm	0.2 0 0 0 0 0.2 0 0 0.3 0 0 0	max. 2 max. 2 max. 2 max. 1 max. 1 max. 11 max. 2 max. 2 max. 2 max. 2 report report	I.C.P.

* Specification AIR 3514/A

The values above are typical values. They do not constitute any contractual commitment.
Sales specifications are available on request. The present technical data sheet replaces all the previous editions.