MINERAL TURBINE OIL

O-133 – AIR 3516/A Iss.2 – MIL-PRF-6081 Gr. 1010

Description

Turbonycoil 3516 is a mineral turbine oil blended from mineral naphthenic base stocks and anti-oxidant additives, with a viscosity of 2 cSt at 100°C. It retains a low viscosity at very low temperature, down to - 60°C.

Application

Turbonycoil 3516 is intended for use in specific models of aircraft jet engines. As synthetic ester based turbine oils have superseded mineral-based oils, the use of Turbonycoil 3516 is now restricted to cold parts of aircraft engines or airframes. It is used as general purpose lubricant for many aircraft parts.

It is particularly recommended as a preservative oil for the jet fuel control system of military and/or commercial aircraft.

However, Turbonycoil 3516 is not intended to be a corrosion preservative oil for parts that are normally exposed to the atmosphere.

Characteristic	Unit	Result	Limit*	Test method
- Colour	-	0.5	max. 5.5	ASTM D 1500
- Density at 20°C	kg/dm^3	0.850	report	ASTM D 4052

- Kinematic viscosity at
    40°C
    100°C
    - 40°C
        after 35 min.
        after 3 h
        change after 3 h
	mm²/s
	
	%
		
		10.9
		2.97
		
		2223
		2249
		1.2
			
			mini. 10.0
			report
			
			max. 3000
			max. 3000
			max. 2.0
				ASTM 2532

- Pour point	°C	< - 60	max. - 57	ASTM D 97
- Flash point	°C	172	min. 132	ASTM D 92
- Sedimentation number	cm^3	nil	nil	ASTM D 91

- Foaming characteristics
    at 24°C
    at 94°C
    at 24°C after 94°C
	cm^3/cm^3	
		20/0
		20/0
		20/0
			
			report
			report
			report
				ASTM D 892

- Acid number	mg KOH/g	0.01	max. 0.10	ASTM D 664
- Copper corrosion 3 h at 100°C		1 a	max. 1 b	ASTM D 130

- Oxidation-corrosion test
  168 h at 121°C
    Viscosity change at 37.8°C
    Acid number change
    Metal corrosion
        Steel
        Copper
        Cadmium
        Aluminium
        Magnesium
  Deposits
	
	%
	mg KOH/g
	mg/cm²
	
	mg/100cm^3
		
		+ 0.9
		+ 0.02
		
		0.0
		0.0
		0.0
		0.0
		0.0
		1
			
			- 5 to + 20
			max. +/- 0.20
			
			max. +/- 0.2
			max. +/- 0.2
			max. +/- 0.2
			max. +/- 0.2
			max. +/- 0.2
			max. 20
				FTM-S-791-5308

* Specification AIR 3516/A

TTN3516-2E2a

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.