



PETROLEUM HYDRAULIC FLUID

NATO CODE H-515 - DCSEA 415/A - MIL-PRF-5606 H

DEF STAN 91-48 Iss.2 - OM-15

Airbus CML 02BBB9 / ATR CML 02-001

DESCRIPTION

Hydraunycoil FH 51 is a petroleum-based hydraulic fluid with a viscosity of 14 cSt at 40°C. It contains antioxidant, anti-corrosion and anti-wear additives. Hydraunycoil FH 51 has an extremely wide operating temperature range (from -54°C to +135°C in air-tight circuits and -54°C to 90°C in open circuits) with a viscosity index exceeding 300. It is micro-filtered and is supplied with a controlled level of contaminant.

APPLICATIONS

- Landing gear shock struts of military and commercial aircrafts
- Flight control systems of military aircrafts and missiles
- Hydraulic systems of ground equipment (tanks, armored vehicles, etc)

CHARACTERISTIC	UNIT	TYPICAL RESULT	MIL-PRF-5606 H LIMITS	TEST METHOD
Density at 20°C	-	0.870	report	ASTM D 4052
Appearance	-	limpid red oil	red oil	Visual
Kinematic viscosity				
At 200°C		2.1	-	
At 100°C	mm ² /s	5.39	min. 4.9	ASTM D 445
At 40°C		14.12	min. 13.2	
At - 40°C		444	max. 600	
At - 54°C		2012	max. 2500	
Low temperature stability, 72 h at - 54°C	-	pass	no gelling, clouding, crystallization, solidification or separation	FED-STD-791-3458
Flash point	°C	91	min. 82	ASTM D 93
Auto-ignition temperature	°C	245	-	ASTM E 659
Pour point	°C	- 69	max. - 60	ASTM D 97
Total acid number	mg KOH/g	0.04	max. 0.20	ASTM D 664
Evaporation loss, 6 h at 71°C	%w	16.2	max. 20.0	ASTM D 972
Foaming test (tendency/stability) at 24°C	cm ³ /cm ³	42/0	max. 65/0	ASTM D 892
Steel on steel wear, 4-ball machine, scar diameter, 1h at 392N	mm	0.88	max. 1.0	ASTM D 4172
Solid particles content				
5 - 15 µm		2700	max. 10000	HIAC automatic counter
16 - 25 µm	nb/100 cm ³	150	max. 1000	FED-STD-791-3012
26 - 50 µm		40	max. 150	
51 - 100 µm		10	max. 20	
> 100 µm		1	max. 5	
Elastomer NBR-L compatibility, 168h at 70°C	%v	28.5	19.0 to 30.0	FTM-S-791-3603
Copper corrosion, 3h at 100°C	rating	2a	max. 2e	ASTM D 130
Water content	mg/kg	57	max. 100	ASTM D 1533

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