NYCO AERONAUTICS & DEFENCE

TECHNICAL DATA SHEET

HYDRAUNYCOIL FH 51

PETROLEUM HYDRAULIC FLUID

NATO CODE H-515 – DCSEA 415/A – MIL-PRF-5606 H
DEF STAN 91-48 Iss.2 – OM-15

DESCRIPTION

Hydraunycoil FH 51 is a petroleum-based hydraulic fluid with a viscosity of 14 cSt at 40°C. It contains 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) and a viscosity index exceeding 300. It is micro-filtered and is supplied with a controlled level of contaminant.

APPLICATIONS

- Shock strut fluid for landing gear absorber
- Helicopter systems
- Hydraulic fluid
- Landing gear fluid
- Leak testing
- Hydraulic systems for military aircrafts
- General purpose hydraulic fluid for ground equipment
- Test bench
- Hydraulic actuators
- Missile hydraulic systems

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 At 100°C At 40°C At - 40°C At – 54°C	mm²/s	2.1 5.39 14.12 444 2012	- min. 4.9 min. 13.2 max. 600 max. 2500	ASTM D 445
- 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 16 - 25 µm 26 - 50 µm 51 - 100 µm > 100 µm	nb/100 cm^3	2700 150 40 10 1	max. 10000 max. 1000 max. 150 max. 20 max. 5	HIAC automatic counter
- 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

TFH51-1E7a

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.

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