



NATIONAL | Premium Group II Hydraulic Oils

Product Description

NATIONAL Premium Group II Hydraulic Oils are long-lasting, anti-foaming oils designed to protect the life of high-speed hydraulic pumps and motors; offering superior protection against water contamination, rust, corrosion, and oxidation. Formulated with Group II paraffinic base oils each mono-grade formula — available in six different ISO viscosities ¹ — outperforms other commercial oils in thermal, oxidative, and hydrolytic stability.

Industry and OEM Applications ²

- ◆ Parker HF-0 (formerly Denison; HF-1 & HF-2 are included under this designation)
- ◆ Eaton Vickers E-FDGN-TB002-E
- ◆ Bosch Rexroth RDE 90235
- ◆ FIVES P-68, P-69, P-70 (obsolete)
- ◆ DIN 51524-2
- ◆ ISO 11158
- ◆ ASTM D6158
- ◆ SAE MS 1004
- ◆ JCMAS P041 HK
- ◆ GM LS-2
- ◆ AIST 126, 127
- ◆ SEB 18122

Features

- ✓ Fast air release and great foam inhibition minimizes pump cavitation in systems with high circulation rates.
- ✓ Good water separation (demulsibility) facilitates water removal.
- ✓ Outstanding thermal and oxidation stability that reduces the formation of deposits in reservoirs.
- ✓ Provides excellent wear protection.
- ✓ Minimum viscosity changes over a wide temperature range

The product described above is designed for a specific use and may not be valid for other uses not specified in our specification sheet or in applications not requiring this specific product. Pinnacle Oil believes the information presented in this specification is accurate at the time written and is based upon internally generated information and information as presented by its vendors. No representation, warranty, or guarantee is made as to its accuracy or completeness. We do not accept any liability for any loss or damage that may occur from the use of this information.



Technical Data

ISO GRADE		10	22	32	46	68	100
Product Number		07-122610	07-122622	07-121032	07-121046	07-121068	07-121100
SDS Number		S094		S024			
Viscosity @ 40°C, cSt	D445	9.901	21.14	29.59	43.26	63.07	98.19
Viscosity @ 100°C, cSt	D445	2.704	4.271	5.467	6.765	8.266	11.86
Viscosity Index	D2770	113	107	122	111	99	111
Specific Gravity at 60°F	D4052	0.8291	0.8504	0.8484	0.8613	0.8731	0.8674
Pour Point, °C	D5950	-54	-45	-39	-33	-24	-33
Color ASTM	D1500	L0.5	L0.5	L1.5	L1.5	L1.0	L1.0
Demulsibility	D1401	40-40-0 (15')	40-40-0 (15')	40-40-0 (20')	38-40-2 (10')	40-37-3 (15')	40-40-0 (40')
Foam characteristics	D892	Pass	Pass	Pass	Pass	Pass	Pass
Breakdown voltage, kV ³	D877	39.3	NA	34.8	36.3	33.9	36.8
Oxidation Life, hrs. (to TAN= 2.0, min) ⁴	D943	7,300	6,500	6,500	7,000	6,200	7,400
Total Acid Number, mg KOH/g	D664	0.65	0.64	0.59	0.63	0.56	0.63
Flash Point, °C	D92	188	212	230	244	246	260
Copper Corrosion (100°C, 3h)	D130	1A	1A	1A	1A	1A	1A

- 1) Consult your owner's manual regarding its suitability for use in equipment from other OEMs. These hydraulics perform in most equipment without concern for fluid-related harm.
- 2) AW 10, 22 & 100 excluded from most of these.
- 3) Breakdown Voltage (Dielectric strength) values were measured at point of origin, and they will decrease if the oil becomes contaminated with dirt or even a very small amount of water. According to the Megger guide to insulating oil dielectric breakdown testing, a breakdown voltage of 30 kV or more is usually considered to be acceptable.
- 4) This value is an IR predicted D943 TOST life extrapolation.
- 5) AW 32, 46, and 68 are a rebrand of our Majestic hydraulics.

The recommended shelf life for these oils is typically 60 months from manufacturing date when stored properly in the original sealed containers.

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