



ATLANTA HYDRA HV 46

Description

The base oils used in the manufacture of this group of products have been subjected to a careful refining to achieve high viscosity indexes and high resistance to oxidation. The additives that are incorporated, in addition to improving these natural characteristics, confer these oil's anti-wear properties and behavior against the exceptional temperature.

They are special oils for hydraulic circuits subjected to strong temperature changes and in which, in addition, oils are required higher levels in terms of anti-wear properties. They are also specific for hydraulic circuits outdoors or at low working temperatures as well as for equipment where it is essential to keep viscosity variations well below those of a normal fluid and hydraulic systems used in marine (watertight doors, winches and windlasses, stabilizers, etc.). Excellent performance in hydraulic systems for all types of public works machinery.

Qualities

- Great resistance to oxidation, aging and sludge formation.
- Excellent separation of water.
- Magnificent anti-wear properties.
- Very good defoaming qualities.
- Very high viscosity index.
- Excellent protection of metals against corrosion.
- Compatibility with the joints commonly used in hydraulic circuits.
- Great capacity to support the load.



Quality levels

Depending on the degree of viscosity of the product, it meets the following quality levels:

- DIN-51524 Part 3 HVLP.
- ISO 6743/4 HV
- ISO 11158
- MAG IAS P-68 (ISO 32); P-69 (ISO-68); P-70 (ISO-46)
- AFNOR NF E 48-603 HV.
- AFNOR FILTRABILITY (NF E 48-690 and 48-691)
- Eaton Vickers I-286-S and M-2950-S.

Characteristics Techniques

	Unit	Method	Value	Value	Value	Value	Value
Grade ISO VG			15	22	32	46	68
Viscosity at 100°C	cSt	ASTM D 445	4,0	4,9	6,2	8,2	11,3
Viscosity at 40°C	cSt	ASTM D 445	15	22	32	46	68
Viscosity Index		ASTM D 2270	145	150	150	150	150
Density at 15	g / cm 3	ASTM D 4052	0.859	0.864	0.868	0.871	0.879
Flash Point	° C	ASTM D 92	195	205	205	210	230
freezing point	° C	ASTM D 97	-45	- 39	-33	-33	-33
Demulsion at 54°	min	ASTM D 1401	<25	<25	<25	<30	<45
Resistance to rust, A and B		ASTM D 665	Pass	Pass	Pass	Pass	Pass
Aeromulsion at 50°C	min	ASTM D 3427	<1	< 2	<2	<4	<5
Corrosion to copper 3h at 100°C		ASTM D 130	1b	1b	1b	1b	1b 1b
TAN	mg KOH / g	ASTM D 664	0,5	0,5	0,38	0,38	0,38
Oxidation, NN at 2000 H	mg KOH / g	ASTM D 943	2 max	2 max	2 max	2 max	2 max
FZG, Damage		step DIN 51354	11	11	12	12	12