repsol lubricants

Hydraulic Oil

MAKER TELEX HVLP

Description

The base oils used to manufacture this group of products have been carefully refined to obtain a high viscosity index and excellent resistance to oxidation. Its constituent additives, as well as enhancing these natural characteristics, provide this lubricant with exceptional anti-wear properties and temperature performance.

These oils are specially designed for hydraulic circuits subjected to sudden temperature changes in which oils are also required to have greater anti-wear properties. They are specifically suited to hydraulic circuits exposed to the elements or with low working temperatures, as well as equipment requiring viscosity variations that are significantly lower than in standard fluids, and hydraulic systems used at sea (watertight doors, capstans and windlasses, stabilisers, etc.). Excellent performance in hydraulic systems for all kinds of public works machinery.

Properties

- High resistance to oxidation, ageing and sludge formation.
- Excellent water separation.
- Outstanding anti-wear properties.
- Very good anti-foaming qualities.
- Very high viscosity index.
- Effective protection of metals against corrosion.
- Compatible with the joints habitually used in hydraulic circuits.
- Great load-bearing capacity.

Quality levels, approvals and recommendations

- AFNOR NF ISO 11158 HV, 48-690, 48-691
- DIN 51524-HVLP
- FIVES CINCINNATI P-68 (32)
- FIVES CINCINNATI P-69 (68)
- FIVES CINCINNATI P-70 (46)
- IBERCISA Hydraulics (32, 46)*
- IMS DELTA MATIC Hydraulics (32, 46, 68)*
- ISO 6743/4 HV, 11158 HV
- MANULI Hydraulics (46)*
- THYSSENKRUPP 15, 16 y 17 (Hidraulicos HVLP) (32, 46, 68)*

*Formal approval

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Technical specifications

	UNIT	METHOD	VALUE				
ISO Viscosity Grade			15	22	32	46	68
Density at 15 °C	g/cm3	ASTM D4052	0.862	0.859	0.872	0.876	0.881
Kinematic viscosity at 40 °C	cSt	ASTM D445	15	22	32	46	68
Kinematic viscosity at 100 °C	cSt	ASTM D445	3.7	4.8	6.1	7.9	10.4
Viscosity index	-	ASTM D2270	145	147	141	143	143
Flash point, open cup	°C	ASTM D92	180	198	220	226	242
Pour point	°C	ASTM D97	-45	-39	-33	-33	-33
FZG (A/8,3/90): Failure load stage	-	ISO 14635	11	11	12	12	12
Air release at 50 °C	min	ASTM D3427	‹1	‹2	‹2	‹4	‹5
Corrosion Cu, 3hrs 100 °C	-	ASTM D130	1b	1b	1b	1b	1b
Res. to oxidation, NN @2000h	mg KOH/g	ASTM D943	‹2	‹2	‹2	‹2	‹2
TAN	mg KOH/g	ASTM D664	0.5	0.5	0.38	0.38	0.38
Water separability at 54 °C	min	ASTM D1401	‹25	‹25	‹25	‹30	‹45

The above mentioned characteristics are typical values and should not be considered product specifications.