Hydraulic Oil

MAKER LIBRA HYDRAULIC HLP

Description

The lubricants of this range are specially designed for use in hydraulic circuits requiring fluids with anti-wear properties. They are manufactured from a mixture of selected mineral bases and high-quality regenerated bases, carefully treated and purified, and specific additives have been selected to enhance their anti-wear properties.

These new oils, in addition to being environmentally friendly, offer the same quality as any other HLP category lubricant on the market. Moving forward in Repsols commitment with sustainable development, this product range complies with the waste management hierarchy and is the link that completes the ecological chain of manufacturing, use, collection and recovery of used oils.

These oils are specially suitable for most hydraulic circuits, including those requiring special anti-wear protection, both in industry and motoring (dumpers, civil works machines, etc.), regardless of the type of pump with which they are equipped and pressures under which they work.

Properties

- Resistance to oxidation, ageing and sludge formation.
- Low pour point.
- High viscosity index.
- Compatible with joints.
- Good anti-foam properties.
- Marked anti-wear properties.
- Easy water separation.

Quality levels, approvals and recommendations

- DIN 51524-HLP
- ISO ISO: 6743/4 HM, 11158 HM

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Technical specifications

	UNIT	METHOD	VALUE		
ISO Viscosity Grade			32	46	68
Density at 15 ºC	g/cm3	ASTM D4052	0.857	0.867	0.879
Kinematic viscosity at 40 ºC	cSt	ASTM D445	32	46	68
Kinematic viscosity at 100 ºC	cSt	ASTM D445	5,4	6.9	8.6
Viscosity index	-	ASTM D2270	102	105	97
Corrosion Cu, 3hrs 100 °C	-	ASTM D130	1a	1a	1a
Flash point, open cup	ºC	ASTM D92	205	210	210
Foams: Sec I, II, III formation		ASTM D892	50/75/50	50/75/50	50/75/50
Foams: Sec I, II, III, stability		ASTM D892	0/0/0	0/0/0	0/0/0
FZG (A/8,3/90): Failure load stage	-	ISO 14635	11	11	11
Pour point	ºC	ASTM D97	- 21	-21	- 18
TAN	mg KOH/g	ASTM D664	0.6	0.6	0.6
Water separability at 54 °C	min	ASTM D1401	15	20	20

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