

## Description

Top quality oils for hydraulic circuits. Manufactured from paraffinic bases using ashless technology. They include special additives for hydraulic systems with extremely fine tolerance servo-valves where an excellent filterability in the hydraulic fluid is required.

## Properties

- High resistance to ageing and sludge formation.
- High viscosity index.
- Excellent EP properties.
- Very easy water separation.
- High capacity to eliminate air.
- Excellent filterability.
- Excellent anti-foam properties.
- Good anti-rust and anti-corrosion capacity.
- Compatible with joints and elastomers.

## Quality levels, approvals and recommendations

In accordance with the product's viscosity grade, it complies with the following quality standards:

- DIN 51524 Part 2 HLP
- ISO 6743/4 HM
- ISO 11158
- PARKER DENISON HF-0, HF-1, HF-2\*
- Fives Cincinatti: P-68 (ISO 32); P-69 (ISO 68); P-70 (ISO 46)
- AFNOR NFE 48603 – HM
- SIEMENS ENERGY Zinc free hydraulic oils HLP 46\*
- Manuli Hydraulics (ISO 46)\*
- KraussMaffei Hydraulic Oil (ISO 46 & 68)\*

\* Formal approval

A safety data sheet is available on request.

repsol.com  
+34 901 111 999  
lubricantes@repsol.com

Technical data sheet for Lubricants. Revision 11. February 2021.

## Technical specifications

	UNIT	METHOD	VALUE		
ISO Viscosity Grade			<b>32</b>	<b>46</b>	<b>68</b>
Viscosity at 40 °C	cSt	ASTM D 445	29.5	46	68
Viscosity at 100 °C	cSt	ASTM D 445	5.1	6.6	8.7
Viscosity index		ASTM D 2270	100	98	98
Flash point V/A	°C	ASTM D 92	226	231	246
Pour point	°C	ASTM D 97	-15	-27	-24
De-emulsification at 54 °C	min	ASTM D 1401	20	20	20
Copper corrosion	--	ASTM D 130	1	1	1
Rust, Method A	--	ASTM D 665	Pass	Pass	Pass
TAN	mg KOH/g	ASTM D 974	0.4	0.4	0.4
Aeroemulsion at 50 °C	min	ASTM D 3427	2	3	6
Oxidation, TAN at 2000 h	mg KOH/g	ASTM D 943	<2	<2	<2
FZG, damage step	--	DIN 51583	11	11	11
Four-ball engine, scar diameter	mm	ASTM D 4172	0.35	0.30	0.30
Four-ball engine, wear load index	--	ASTM D 2783	28	34	35

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

A safety data sheet is available on request.

repsol.com  
 +34 901 111 999  
 lubricantes@repsol.com

Technical data sheet for Lubricants. Revision 11. February 2021.