



MAKER HYDRAULIC SC

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

- ARBURG* (46)
- MANULI* (46)
- AFNOR: NFE 48603-HM (32, 46, 68)
- Fives Cincinnati: P-69 (32, 68)
- ISO: 6743/4 HM, 11158 HM (32, 46, 68)
- KRAUSS-MAFFEI: Hydraulic Oil* (46, 68)
- SIEMENS: zinc free hydraulic oils HLP 46* (46)
- DIN: 51524-HLP (32, 46, 68)
- Fives Cincinnati: P-70 (46)
- PARKER DENISON: HF0, HF1, HF2 (32, 46, 68)

*Formal approval



MAKER HYDRAULIC SC

Technical specifications

	UNIT	METHOD	VALUE			
ISO Viscosity Grade			20	32	46	68
Kinematic viscosity at 40 °C	cSt	ASTM D445	20	32	46	68
Kinematic viscosity at 100 °C	cSt	ASTM D445	4,1	5.1	6.6	8.7
Viscosity index	-	ASTM D2270	106	100	98	98
Flash point, open cup	°C	ASTM D92	195	226	231	246
Pour point	°C	ASTM D97	-33	-27	-27	-24
Water separability at 54 °C	min	ASTM D1401	20	20	20	20
Corrosion Cu, 3hrs 100 °C	-	ASTM D130	1	1	1	1
Rust, method A	-	ASTM D665	Pass	Pass	Pass	Pass
TAN	mg KOH/g	ASTM D664	0,60	0,26	0,26	0,26
Air release at 50 °C	min	ASTM D3427	2	2	3	6
Oxidation (TAN = 2)	h	ASTM D943	>2,000	>2,000	>2,000	>2,000
FZG (A/8,3/90): Failure load stage	-	ISO 14635	11	11	11	11
4 Ball wear, print diameter (40 kg)	mm	ASTM D4172	-	0.35	0.30	0.30
4 Ball EP, wear load index	-	ASTM D2783	-	28	34	35

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