



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

## Technical specifications

	UNIT	METHOD	VALUE
ISO Viscosity Grade			46
Viscosity at 40 °C	cSt	ASTM D445	46
Viscosity at 100 °C	cSt	ASTM D445	7.1
Viscosity index	-	ASTM D2270	106
Flash point, open cup	°C	ASTM D92	230
Pour point	°C	ASTM D97	-30
Water separability at 54 °C	min	ASTM D1401	30
Corrosion Cu, 3hrs 100 °C	-	ASTM D130	1b
Rust resistance, method A	-	ASTM D665	Pass
TAN	mg KOH/g	ASTM D974	0.75
Air release at 50 °C	min	ASTM D3427	6
Oxidation (TAN = 2)	h	ASTM D943	>1000
FZG, damage stage	-	DIN 51583	12

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