Hydraulic Oil

MAKER TELEX E

Description

These oils are specially designed for use in hydraulic circuits requiring lubricants with marked anti-wear properties. Manufactured from carefully selected bases with specific to notably enhance their properties.

They are specially suitable for hydraulic circuits and civil works machines equipped with any type of pump, particularly working under high pressures and, in general for all kinds of mechanisms requiring stable oils and in those in which the maximum anti-wear levels required by international standards must be attained and exceeded.

Properties

- High resistance to oxidation and sludge formation.
- High deaeration capacity.
- High viscosity index.
- Very good anti-foam and anti-rust properties.
- Excellent water separation.
- Excellent filterability.
- Very good compatibility with joints and retainers.
- Maximum anti-wear level.
- Excellent load capacity.
- High thermal and hydrolytic stability.

Quality levels, approvals and recommendations

- ABB Turbocharger VTR304-11 / -21 (68)*
- AFNOR NF ISO 11158 HM, 48-690, 48-691
- BATTENFELD Inyectoras (32, 46)
- BOSCH REXROTH RDE 90235 (32, 46, 68)
- DANIELI STANDARD N. 0.000.001 - REV.15 (46, 68)*
- DIN 51524-HLP
- EATON VICKERS I-286-S Y M2950-S
- ENGEL Engel Injection Moulding Machines (46)*
- FIVES CINCINNATI P-68 (32)
- FIVES CINCINNATI P-69 (68)
- FIVES CINCINNATI P-70 (46)
- GIA CLECIM PRESS GIA Sistema de extrusion de tochos (46, 68)*
- IBERCISA Hidráulicos (32, 46)*
- IMS DELTA MATIC IMS DELTA MATIC (32, 46, 68)*
- ISO 6743/4 HM, 11158 HM
- NEGRI BOSSI ELEOS, eCANBIO JANUS Y VESTA series (46)*
- ORTLINGHAUS Standard ON 9.2.19 (46)*
- PARKER DENISON HF0, HF1, HF2 (32, 46, 68)*
- THYSSENKRUPP 3,4 y 5 (Hidraulicos HLP) (32, 46, 68)*
- VOITH Voith Turbo Variable Speed Drives (22, 32, 46)*

*Formal approval

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Technical specifications

	UNIT	METHOD	VALUE					
ISO Viscosity Grade			15	22	32	46	68	100
Density at 15 ºC	g/cm3	ASTM D4052	0.861	0.867	0.874	0.880	0.884	0.887
Kinematic viscosity at 40 ºC	cSt	ASTM D445	15	22	32	46	68	100
Kinematic viscosity at 100 ºC	cSt	ASTM D445	3.4	4.4	5.4	6.8	8.5	11.0
Viscosity index	-	ASTM D2270	113	107	100	98	98	97
Air release at 50 °C	min	ASTM D3427	1	1	1.5	2.4	3.6	6
Corrosion Cu, 3hrs 100 °C	-	ASTM D130	1a	1a	1a	1a	1a	1a
Flash point, open cup	ºC	ASTM D92	198	210	226	231	246	264
FZG (A/8,3/90): Failure load stage	-	ISO 14635	-	-	12	12	12	12
Pour point	ºC	ASTM D97	-27	-27	-24	-24	-24	-21
RPVOT	min	ASTM D2272	400	400	400	400	400	400
Rust, Methods A and B	-	ASTM D665	Pass	Pass	Pass	Pass	Pass	Pass
TAN	mg KOH/g	ASTM D664	0.38	0.38	0.38	0.38	0.38	0.38
Water separability at 54 °C	min	ASTM D1401	‹20	‹20	‹25	‹30	‹45	‹30(82 ºC)

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