

TECHNICAL DATA SHEET | INDUSTRIAL

Engen TQH 20 Series

Anti-Wear Hydraulic Fluids



Extreme
Pressure



Heavy
Loads



Corrosion
Protection



PETRONAS

Engen is a
member of the
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Description

TQH 20 Series are premium quality anti-wear hydraulic oils specially developed to provide multi-metal compatibility and improved wear protection in heavy-duty service hydraulic systems.

These oils are made from solvent refined, high viscosity index mineral oils, they contain stabilized anti-wear, anti-oxidation, anti-rust and defoamants additives.

Application

TQH 20 Series oils are recommended for use in hydraulic systems, in industrial, marine, and mobile service. These products are recommended where the manufacture specifies the use of anti-wear hydraulic fluids to cater for highly stressed pumps delivering large volumes at high pressures and temperatures. TQH 20 Series oils are also suitable for many circulation, splash, bath, and ring oiling systems feeding lubricant to gears and bearings of industrial machinery. These oils should not be used with silver and/or silver coated components.

Benefits & Features

- Superior wet and dry filterability.
- Excellent anti-wear properties.
- Balanced formulation for the best performance.
- Multi-metal compatibility (except for silver components).
- Outstanding thermal and oxidation stability.
- Good rust and corrosion protection.
- Good demulsibility for rapid separation of water.
- Excellent anti-foam characteristics.

Performance Level

Meets or exceeds the following Industry Standards:

- Parker Denison HF0/HF1/HF2
- MAG IAS (Cincinnati Milacron) P-68/P-69/P-70
- Bosch Rexroth Fluid Rating RDE 90240
- AFNOR NFE 48-690/1 (Dry & Wet)
- AFNOR NFE 48-603
- DIN 51524 Part 1,2
- Eaton 03-401-2010 (supersedes Vickers I-286-S & M-2950-S)
- GM LS-2
- ISO 11158 HM
- JCMAS HK; SABS 1218-1984
- Sauer Danfoss 520L0463
- US Steel 126, 127 and 136



With us you are Number One

ENGEN

Typical Physical Characteristics

ENGEN TOH 20 SERIES							
PARAMETERS	METHODS	UNITS	TYPICAL VALUES				
ISO Viscosity Grade	ISO 3448	-	20/32	20/46	20/68	20/100	20/150
Viscosity @ 40°C	ASTM D445	cSt	30	46	64	98	150
Viscosity @ 100°C	ASTM D445	cSt	5,2	6,9	8,6	11	14,6
Viscosity Index	ASTM D2270	-	100	105	105	97	96
Flash Point, min	ASTM D92	°C	220	230	236	248	276
Pour Point	ASTM D5950	°C	-18	-15	-15	-9	-9
Density @ 20°C	ASTM D4052	g/cm3	0.865	0.870	0.873	0.877	0.882
Copper Strip Corrosion, 3HRS, 100°C	ASTM D130	-	1b	1b	1b	1b	1b
FZG Scuffing, Fail Load Stage, A/8.3/90	DIN 51534	-	12	12	12	12	12
ASTM Rust Test, B (Sea Water)	ASTM D665	-	Pass	Pass	Pass	Pass	Pass
Foam Test, Seq I Tendency/stability	ASTM D892	ml/ml	20/0	20/0	20/0	20/0	20/0

All technical data is provided for reference only. These characteristics are typical of current production. Whilst future production will conform to Engen's specification, variations in these characteristics may occur.

Health, Safety and Environment

This product is unlikely to present any significant health and safety hazards when used in the recommended application. Avoid contact with skin. Wash immediately with soap and water after skin contact. Do not discharge into drains, soil or water. For further detail regarding storage, safe handling, and disposal of product, please refer to product SDS. Safety Data Sheets are available for all our products and should be only be consulted for appropriate information regarding storage, safe handling and disposal of the product. No responsibility shall be taken by either Engen or its subsidiaries and related holding corporation for any loss or injury or any direct, indirect, special, exemplary, consequential damages or any damages whatsoever, whether in action of contract, negligence or other tortious action, in connection or resulting from abnormal use of the materials and/or information, from any failure to adhere to recommendations, or from hazards inherent in the nature of the materials and/or information. All products, services and information supplied are under our standard conditions of sale. Please consult with any of our local representative in the event you require any further information.

For more information about this product and other products in our range please scan the following:



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