



Industrial Oils, Fluids & Lubricants

# Technical Data Sheet (TDS)

## HYDRAULIC OIL ISO 46

### Description

ISOCRACKING, ISODEWAXING and ISOFINISHING technology and catalysts are used in the sequence of refining processes employing hydrogen at high pressure to make high-quality lubricant base oils.

ISOCRACKING technology is a hydrocracking process used to improve VI (Viscosity Index) and remove impurities. Viscosity Index (VI) measures the resistance of an oil to viscosity change as temperature changes. The higher the VI, the more stable the viscosity over a wide temperature range. In other words, the higher the VI, the less an oil will thicken as it gets cold and the less it will thin out at higher temperatures—providing better lubricant performance at both temperature extremes.

ISODEWAXING technology converts wax molecules into high quality lubricant components resulting in very low wax content, which delivers better low-temperature performance compared to previous Group I base oils.

ISOFINISHING technology is a final, high-pressure polishing process to improve the stability of Group II base stocks. This technology was invented in 1994 and today virtually all Group II base oils are made using some version of the isomerized dewaxing process. Due to their high level of purity, Group II base oils provide additional benefits never seen before in Group I base oils.

### Applications

These features maximize protection and performance of your machine's lubricating system. These hydraulic oils are recommended for all hydraulic oil systems, forklift hydraulic systems, elevators, and machine gear boxes.

PLEASE BE ADVISED THAT YOU SHOULD ALWAYS CONSULT THE MANUFACTURER'S RECOMMENDATION FOR PROPER LUBRICATING OIL AND VISCOSITY INFORMATION.

### Physical Properties

<u>Property</u>	<u>ASTM Methods</u>	<u>Specifications</u>
API BASE OIL CATEGORY	API 1509 E.1.3	GROUP II
APPEARANCE	SM 360-99	COLORLESS
COLOR	ASTM D 1500	L0.5
API GRAVITY, deg.	ASTM D 4052	32.1
DENSITY, LB/GAL	ASTM D 4052	7.173
GRAVITY, SPECIFIC @ 60 F	ASTM D 4052	.861
VISCOSITY @ 40 C (cSt)	ASTM D 445	46
VISCOSITY INDEX	ASTM D 2270	103
POUR POINT, C	ASTM D 5950/1C	-15 (5 deg F)
FLASH POINT (COC) C	ASTM D 92	>182 (360 deg F)
WATER, ppm	ASTM D 6304-98	<50
SULFUR, ppm	ICP/XRF	<6
SATURATES, HPLC wt. %	CHEVRON	>99
AROMATICS, HPLC wt. %	CHEVRON	<1

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