



## TORQU3® ASHLESS DETERGENT HYDRAULIC OILS

(Premium Quality, Multigrade, High Performance Engine Oils)

High performance hydraulic oil produced from high quality, detergent and ash-free antiwear additives and carefully selected quality mineral base oils. It provides consistently high performance even in an environment affected by water and dust in industrial and mobile hydraulic systems working under heavy load conditions. It has an outstanding load carrying capacity, it provides excellent protection against wear even at light loads / low speeds (Brugger value  $>50 \text{ N/mm}^2$  DIN 51347-2). Due to its high performance additive system, it has an excellent wear reducing performance, close to that of gear oils (FZG 12, DIN 51354-2). Typical applications include machine-tools in the automotive industry, hydraulic systems in metallurgical plants, foundries, cement factories and agriculture.

### PERFORMANCE BENEFITS

#### PERFORMANCE LEVELS, APPROVALS:

- ISO 11158 HM, DIN 51524-2 (HLP), DIN HLP-D, Mueller Weingarten

#### Protect the Environment

Dispose of used oils responsibly. Do not discharge into drains, soil or water.

### TORQU3® ASHLESS DETERGENT HYDRAULIC OILS

Product	Hydro HLPD 32 AL	Hydro HLPD 46 AL	Hydro HLPD 68 AL
Kinematic viscosity at 40°C mm <sup>2</sup> /s	33	47.3	69.8
Pour point°C	-24	-21	-21
Flash point (Cleveland)°C	220	230	235
Density at 15°C g/cm <sup>3</sup>	0.872	0.873	0.883

These characteristics are typical of current production. Whilst future production will conform to TORQU3's specification, variations in these characteristics may occur.