

## Hydraulic oil

### AUTOL HVLP-D 46

DIN 51 524 T.3 HVLP  
ISO 11158 HV

**AUTOL HVLP-D 46** is a mineral-based multigrade hydraulic oil featuring highly effective EP additives, detergent/dispersant properties, and a high viscosity index.

#### Characteristics (typical figures):

| Characteristic          | Unit               | Value    | Test method     |
|-------------------------|--------------------|----------|-----------------|
| Kin. Viscosity at 40°C  | mm <sup>2</sup> /s | 45,9     | DIN EN ISO 3104 |
| Kin. Viscosity at 100°C | mm <sup>2</sup> /s | 8,17     | DIN EN ISO 3104 |
| Viscosity index         | -                  | > 150    | DIN ISO 2909    |
| Density at 15°C         | g/cm <sup>3</sup>  | 0,871    | DIN 51 757      |
| Flash point             | °C                 | 228      | DIN ISO 2592    |
| Pour point              | °C                 | - 39     | DIN ISO 3016    |
| FZG test A/8,3/90       | SKS                | > 12     | DIN ISO 14 635  |
| Air release at 50°C     | min.               | 5        | DIN ISO 9120    |
| Purity class            | -                  | 19/17/13 | ISO 4406        |

#### Properties and performance:

**AUTOL HVLP-D 46** is a detergent and dispersant hydraulic oil based on mineral oil, offering excellent viscosity-temperature characteristics. It dissolves deposits, keeps contaminants in suspension, and emulsifies water and cooling lubricants without significantly impairing lubricating or anti-corrosion properties. Special additives improve sliding characteristics and prevent stick-slip effects.

**AUTOL HVLP-D 46** is suitable for mobile hydraulic systems (excavators, wheel loaders, bulldozers, truck hydraulics, etc.) as well as stationary equipment in manufacturing and machine tool applications. It ensures maximum operational reliability, minimal wear, system cleanliness, and smooth, consistent operation across varying operating temperatures.

**AUTOL HVLP-D 46** exceeds the requirements for hydraulic oils set by DIN 51 524 Part 3 and ISO 11158 (with the exception of demulsibility) in important performance areas.