

# Aral Vitam DE 46

## Hydraulic oil

### Applications:

The use of Aral Vitam DE 46 gives an increased service life and optimizes the functional safety of the hydraulics. This zinc free HLP-D type hydraulic fluid with detergent/ dispersant properties has the following advantages over conventional hydraulic oils: Through the continuous cleansing of impurities, deposits and residue in the system are avoided, which could cause a malfunction of control elements. Through this oil's absorption of humidity, corrosion is avoided. It also decreases wear in areas with boundary lubrication and its polar additives suppress "stick-slip" movements.

### Operational area:

Aral Vitam DE 46 fundamentally suited for all kinds of hydraulics, particularly in unfavorable operating conditions (e.g. frequent temperature changes, humidity as well as impurities through emulsion, dust and other foreign elements) or when the danger of excessive vibrations exists (e.g. in construction equipment, machine tools and slow motion hydraulics). Aral Vitam DE 46 has a very good absorption of humidity, optimal corrosion prevention, dependable wearing protection and an outstanding ageing stability. In addition it disposes of anti-redeposition power, cleansing properties, reduction the stick-slip (Stick-Slip-Effect) and is free from zink compounds.

### Technical Data

Density at 15 °C	g/ml	DIN 51757	0,876
Viscosity			
0 °C	mm <sup>2</sup> /s	DIN 51562	570
40 °C	mm <sup>2</sup> /s	DIN 51562	46
100 °C	mm <sup>2</sup> /s	DIN 51562	6,8
Viscosity Index		DIN ISO 2909	98
Pourpoint	°C	DIN ISO 3016	-27
Flash point COC	°C	DIN ISO 2592	216
Neutralization number	mg KOH/g	DIN 51558-1	0,23
Ageing characteristics			
Increase n.n. after 1000 h	mgKOH/g	DIN 51587	<2,0
Air release time at 50 °C	min	DIN 51381	5
Corrosiveness			
on copper	Korr. Grad.	DIN EN ISO 2160	1-100 A3
on steel	Korr. Grad.	DIN ISO 7120	0-A
FZG test A/8,3/90	SKS	DIN 51354-2	>=12
Foaming characteristics			
at 24 °C	ml	ISO 6247	<10/0
at 24 °C after 95 °C	ml	ISO 6247	<25/0
at 95 °C	ml	ISO 6247	<10/0

### Remarks:

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All data is subject to development for the product and the production process.

Version-No.: IS0911050007