



Aral Vitam HF 46

Hydraulic oil

Applications:

Aral Vitam HF 46 is a high quality, mineral oil based product, that guarantees a high function and operational safety. The capabilities of this high VI (Viscosity Index) zinc free hydraulic oil exceeds the requirements of DIN 51524-3 for HVLP oils. The excellent viscosity temperature performance of this oil is its special quality characteristic. With an optimal operational viscosity over a wide temperature range, this hydraulic oil is guaranteed to maintain a high performance even at very low temperatures. The high viscosity index gives Aral Vitam HF 46 multiple characteristics and makes it possible to cover several viscosity classes. In addition, this product has a good corrosion prevention, excellent ageing stability and an outstanding wearing protection with a high measure of efficiency.

Operational area:

The quality Aral Vitam HF 46 is usable for hydraulic systems that need precise control during great fluctuations of temperature, as long as no special precision oils are required by the systems manufacturer. This product is recommended for the use in heavy duty construction equipment, hydraulic systems on utility vehicles, production presses, auxiliary engines, numerically controlled machine tools and conveyors. Aral Vitam HF 46 meets specification requirements of reputed manufactures of hydraulic pumps and motors, and the following approvals/ recommendations apply:

- Hagglund-Dension HF-0, HF-2
- Vickers Mobilanlagen, M-2952-S-Spezifikation
- Rexnord-Racine Flügelzellenpumpen
- Mannesmann Rexroth Hydromatik Kolbenpumpen
- Sigma-Rexroth Zahnradpumpen ,– Ford M-6 C 32
- Marrel Hydro, - Frank Mohn (F), - Sauer

Technical Data

Density at 15 °C	g/ml	DIN 51757	0,874
Viscosity			
40 °C	mm ² /s	DIN 51562	46
100 °C	mm ² /s	DIN 51562	8,1
Viscosity Index		DIN ISO 2909	150
Pourpoint	°C	DIN ISO 3016	-30
Flash point COC	°C	DIN ISO 2592	186
Oxide ash	Gew. %	DIN EN ISO 6245	<0,01
Neutralization number	mg KOH/g	DIN 51558-1	0,12
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

Foaming characteristics			
at 24 °C	ml	ISO 6247	<50/0
at 95 °C	ml	ISO 6247	<500
at 24 °C after 95 °C	ml	ISO 6247	<50/0
FZG test A/8,3/90	SKS	DIN 51354-2	12
Demulsion character. at 54 °C	min	DIN 51599	<10

Remarks:

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

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