



## AUTOMOTIVE TRANSMISSION OILS

# ADDINOL TRANSMISSION OIL GH 80 W 90, GH 85 W 90, GH 80 W 140, GH 85 W 140

### PRODUCT DESCRIPTION

ADDINOL Transmission Oils GH consist of premium ageing resistant mineral oil raffinates blended with a well-balanced additive combination of phosphorus and sulphur.

### APPLICATION

- Very suitable for the lubrication of highly loaded hypoid axle drives with large offset
- Outstanding suitability for the lubrication of transfer, intermediate and auxiliary gearboxes in passenger cars, commercial vehicles, and off highway applications
- Also suitable for non-synchronized manual transmission operated under high-speed, shock load conditions
- ADDINOL Transmission Oil GH 80 W 140 is particularly suitable for extremely varying climates with excellent shifting behaviour at low temperatures
- Always refer to manufacturers manual.

### DELIVERY

Delivery preferable in drums and small cans.

### SPECIFICATIONS / APPROVALS

Meet and exceed the international specifications of:

- API GL-5
- MIL-L-2105 D

Meet the requirements of:

- ZF TE-ML 07A, 08

#### GH 80 W 90:

- DTFR 12B100 (MB 235.0)

#### GH 85 W 90:

- DTFR 12B100 (MB 235.0)

#### GH 80 W 140:

- ZF TE-ML 05A, 12E, 16C, 21A

#### GH 85 W 140:

- Caterpillar FD-1

Approved according to:

#### GH 80 W 90:

- ZF000671: ZF TE-ML 16B, 17B, 19B, 21A
- Voith Turbo 132.00374400

#### GH 85 W 90:

- ZF000555: ZF TE-ML 16C, 17B, 19B, 21A
- MAN 342 M1
- Voith Turbo 132.00374400
- Kessler

#### GH 85 W 140:

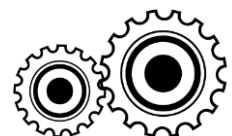
- ZF003561: ZF TE-ML 05A, 12E, 16D, 21A

### CHARACTERISTICS

- Excellent scuffing load capacity
- Good cold flow behaviour
- Low foaming tendency
- Reliable corrosion protection
- Thermal and oxidative stability

### ADVANTAGES AND BENEFITS

- Protection against scuffing and wear even under highest loads
- Reliable lubrication at system start-up even at low temperatures
- Effective lubrication of transmission that tend to be prone to foaming
- Reliable protection of the transmission parts for low costs for maintenance and repairs
- Ensures long service lifetime





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### SPECIFICATIONS AND TYPICAL PARAMETERS

Feature	Test condition / unit		GH 80 W 90	GH 85 W 90	GH 80 W 140	GH 85 W 140	Method acc. to
Appearance	Clear, homogenous and free from visual impurities						visual
Approvals			ZF000671: ZF TE-ML 16B, 17B, 19B, 21A Voith Turbo	MAN 342 M1 ZF000555: ZF TE-ML 16C, 17B, 19B, 21A Voith Turbo		ZF003561: ZF TE-ML 05A, 12E, 16D, 21A	OEM Standards
SAE Grade	J 306		80W-90	85W-90	80W-140	85W-140	Laboratory and bench tests acc. to ASTM und CEC
API	GL-5						
Density	at 15 °C	kg/m <sup>3</sup>	889	902	891	908	DIN 51757
Viscosity	at 100 °C	mm <sup>2</sup> /s	17.5	16.8	28.5	27.8	ASTM D 7042
Viscosity Index			125	95	115	94	DIN ISO 2909
Apparent Viscosity	at -12 °C	mPa*s	--	< 150,000	--	< 100,000	DIN 51398
	at -26 °C		< 150,000	--	< 150,000	--	DIN 51398
Flash point	COC	°C	215	215	215	220	DIN EN ISO 2592
Pour Point			-33	-30	-34	-24	ASTM D 7346

### ADDINOL - The Experts for High-Performance Lubricants

We at ADDINOL develop and produce more than 600 high-performance lubricants of the new generation. Among these are automotive lubricants for highest demands and pioneering developments for industrial applications. Our customers all over the world benefit from the high and stable quality of our ADDINOL high-performance lubricants, our expertise, and the individual customer advisory service of our competent experts. Our company has worldwide activities. ADDINOL high-performance lubricants are distributed by more than 120 international partners.

The data given in this product sheet represent our current level of knowledge and experience. Due to the various specific application they, however, do not discharge the user from his own examination. The information provided herein may not be used to derive a legally binding warranty of specific properties or the suitability for a certain purpose of application. Detailed security-concerning and toxicological data as well as security instructions for each product can be taken from the corresponding Material Safety Data Sheets (MSDS). High-performance lubricants from ADDINOL are under continuous development. Therefore, ADDINOL Lube Oil GmbH keeps the right to change technical data in this product data sheet without notification. In case of doubt, please do not hesitate to contact our customers' advisory service.