



## 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 consists of ageing resistant mineral oil raffinates, which are blended with a selected additive combination of phosphorus/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 gear boxes in passenger cars and work machines
- Also applicable for non-synchronised manual transmissions
- ADDINOL Transmission Oil GH 80W 140 is particularly suitable for extremely varying climates, with excellent switching 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 and exceed the specification of:

- ZF TE-ML 07A, 08

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

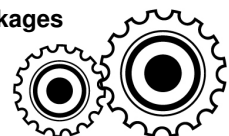
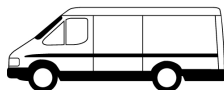
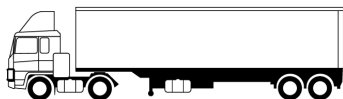
Meet and exceed the specification of:

#### GH 85 W 90

- MB 235.0

### CHARACTERISTICS

- Excellent scuffing load capacity
- Very good viscosity-temperature behaviour
- Outstanding ageing resistance
- High shear stability
- Reliable corrosion protection
- Low foaming tendency
- Good compatibility with elastomers



### ADVANTAGES AND BENEFITS

- High load carrying capacity of the transmission
- Reliable application also under extremely varying climates and low temperatures
- Long oil lifetime
- Reliable lubrication also under highest loads
- Excellent protection of transmissions parts with low maintenance and repair costs
- Effective lubrication also at transmission, which tend to foam formation
- Increased protection against leakages



# ADDINOL TRANSMISSION OIL

## GH 80 W 90, GH 85 W 90, GH 80 W 140, GH 85 W 140

### SPECIFICATIONS AND TYPICAL PARAMETERS

Feature	Test condition / unit		80 W 90	85 W 90	80 W 140	85 W 140	Method acc. to
Appearance			Clear, free from contaminations				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			OEM-standards
SAE-grade	J 306		80W-90	85W-90	80W-140	85W-140	ASTM
API			GL-5				Laboratory and engine tests acc. to ASTM and CEC
Density	at 15°C	kg/m <sup>3</sup>	889	902	891	911	DIN 51757
Viscosity	at 100°C	mm <sup>2</sup> /s	17.5	16.8	29.5	27.5	ASTM D 7042
Viscosity index			125	95	115	90	DIN ISO 2909
Apparent viscosity	at -26°C	mPa*s	max. 150,000	--	max. 150,000	--	DIN 51398
	at -12°C	mPa*s	--	max. 150,000	--	100,000	
Flash point	COC	°C min.	215	215	215	220	DIN EN ISO 2592
Pour point		°C max.	-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 know-how and the individual customer advisory service of our competent experts. Our company has world wide activities. ADDINOL high-performance lubricants are distributed by more than 90 international partners.

The data given in this product sheet represent our current level of knowledge and experience. Due to the various specific application they do, however, 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.