

## Approved Oils, MACK mDRIVE Transmissions

### Transmission Oil Type/Quality

 **CAUTION**

Only use MACK-approved synthetic transmission oil in the mDRIVE transmission. Using non-approved transmission oil can result in damage to transmission components.

 **CAUTION**

Drained mDRIVE synthetic oil must NEVER BE REUSED and must be replaced along with the transmission oil filter when the transmission oil is changed.

MACK mDRIVE transmissions are factory filled with oil according to VOLVO STD 1273,18 (Transmission Oil 97318). This oil type allows 800 000 Km (500,000 mi) oil drain intervals in the "D" and "E" Design Level mDRIVE transmissions in on the road long haul applications with max 80,000 lbs GCW. Oils meeting VOLVO STD 1273,19 (Transmission Oil 97319) can also be used for this purpose.

For service fill, please use MACK mDRIVE Transmission Fluid 75W-80 available in 5 USG or 4 x 1 USG containers.

Should this oil not be available, please use the following approved oils:

<b>Extended drains: Transmission oils 97318 and 97319 (800000 Km [500,000 mi])</b>		
<b>Supplier</b>	<b>Brand Name</b>	<b>Viscosity Grade</b>
MACK Truck Parts	Bulldog mDRIVE Transmission Fluid	75W-80
Chevron Lubricants	Chevron Multigear MTF HD	75W-80
Chevron Lubricants	Chevron Multigear MTF HD	75W-90
Chevron Lubricants	Texaco Multigear MTF HD	75W-80
Mobil Branded Lubricants (Exxon/Mobil Corp)	Mobil Delvac Synthetic Transmission Oil V 30	75W-80

For other applications than mentioned above, the oil drain interval is maximum 400 000 Km (250,000 mi) (Regular drains). MACK Trucks Inc recommends MACK mDRIVE Transmission Fluid 75W-80 also in these applications. However, should this oil not be available, any other approved oil for extended drains (table above) or regular drains (table below) can be used.

<b>Supplier</b>	<b>Brand Name</b>	<b>Viscosity Grade</b>
<b>Regular drains: Transmission Oils 97307 and 97315 (400000 Km [250,000 mi])</b>		
MACK Truck Parts	MACK Synthetic Gearbox Oil 97315	75W-90
MACK Truck Parts	MACK Synthetic Gearbox Oil 97307	75W-80
MACK Truck Parts	Bulldog mDRIVE Transmission Fluid	75W-80
BASF	Emgard MTF 4200	75W-80
BASF	Emgard MTF 4230	75W-80
BASF	Emgard MTF 4250	75W-90
Castrol Ltd.	Syntrans	75W-85
Castrol Ltd.	Syntrans Heavy Duty	75W-90
Gulf Oil International	Gulf Syngear LL	75W-90
Gulf Oil International	Gulf Syngear VF	75W-80
Kuwait Petroleum	Q8 Super Gear V	75W-80

Supplier	Brand Name	Viscosity Grade
Lukoil Lubricants	Lukoil Transmission HD TM-4	75W-80
Lukoil Lubricants	Lukoil Transmission HDV TM-4	75W-90
OMV Refining & Marketing GmbH	OMV gear oil MPX	75W-80
Raloy Lubricantes SA	Transintex Plus	75W-80
Raloy Lubricantes SA	Transintex Plus HD	75W-90
Ravensberger Schmierstoffvertrieb GmbH	RAVENOL SSG Spec Synt LKW Getriebol	75W-80
Renault Truck Oils	Longevia BXI Eco	75W-80
Renault Truck Oils	Longevia BZV Eco	75W-80
Renault Truck Oils	Longevia BVHD	75W-90
Shell International Petroleum Co.	Spirax GSX	75W-80
Shell International Petroleum Co.	Spirax S6 GXME	75W-80
SRS Schmierstoff Vertrieb GmbH	Wintershall Getriebefluid MTS	75W-80
Total Lubricants	Transmission XS FE	75W-90
Total Lubricants	Transmission XS FE	75W-80
Total Lubricants	TPM 97315	75W-90

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## TO-A Plus Approved Oils

**TO-A Plus Approved Oils are for use in MACK (non-mDrive) transmissions only. These oils are extended life lubricants. These oils are approved as of October 14, 2010.**

Supplier	Brand Name	Viscosity Grade
1 Verco International Inc. (April Super Flo)	Superpro Syn-Trans CD-50	SAE 50
Allied Oil and Supply Company	Allied Mag Synthetic 50	SAE 50
American AGIP	Syntrans CD-50	SAE 50
American Refining Group	Roadranger SAE 50	SAE 50
Anglo Design Pty Ltd.	Anglomoil Road Master Gear 50-S	SAE 50
Bardahl de Mexico S.A. de C.V.	Bardahl Gear Oil Fully Syn SAE 50	SAE 50
Benz Oil	Roadranger SAE 50	SAE 50
BP Lubricants USA, Inc.	Syn-Gear CD 50	SAE 50
	Syntrans 50E	SAE 50

<b>Supplier</b>	<b>Brand Name</b>	<b>Viscosity Grade</b>
BP Oil New Zealand Limited	Transmission Oil S-CD50	SAE 50
Caltex Oil Pty Ltd.	SYNSTAR GL 50	SAE 50
Castrol Australia Pty Ltd.	SYNDRIVE 50 E	SAE 50
	SYNTRANS 50E	SAE 50
Castrol Heavy Duty Lubricants, Inc.	SynGear CD-50	SAE 50
	Syntrans 50E	SAE 50
Chevron Products Co.	Chevron Delo Synthetic Transmission Fluid SAE 50	SAE 50
CHS, Inc.	Maxtron MT SAE 50	SAE 50
Citgo Petroleum Corp,	Citgo Synthetic Gear Lube CD-50	SAE 50
Cognis Australia Pty Ltd.	Emgard SAE 50 Synthetic Transmission Lube	SAE 50
Cognis Corporation	Emgard SAE 50 Synthetic Transmission Lube	SAE 50
Cognis Canada Corp.	Roadranger SAE 50	SAE 50
Cognis GmbH Liason Office-India	Roadranger SAE 50	SAE 50
Cognis Mexicano S.A. de C.V.	Roadranger SAE 50	SAE 50
Comercial Importadora S.A. de C.V	Q.S. Synquest CD-50	SAE 50
Comercial Roshfrans S.A. de C.V	Aceite Gear Plus CD 50	SAE 50
ConocoPhillips Company	Triton® Synthetic Transoil 50	SAE 50
	Kendall SHP® Synthetic Transoil 50	SAE 50
CountryMark Cooperative LLP	Advantage Full Synthetic SAE 50	SAE 50
Crane Carrier Co.	Roadranger SAE 50	SAE 50
Daimler Truck N.A.	Roadranger SAE 50	SAE 50
David Weber Oil Company	Gibraltar Synthetic Gear Lube CD-50	SAE 50
Eaton Corporation	Roadranger SAE 50	SAE 50
ExxonMobil Lubricants & Specialties	Mobil Delvac Synthetic Transmission Fluid 50	SAE 50
Fuchs Lubricants of Australia	Tutela Gear XLD	SAE 50
	Titan Gear Syn 50	SAE 50
Fuchs Lubricants Canada Ltd.	Titan Syndrive 50	SAE 50
General Motors Service Parts	Synthetic Manual Transmission Lubricant # 12345724	SAE 50
Gulf Oil International	Gulf Syngear LL 50	SAE 50
Imperial Oil (Canada)	Mobil Delvac Synthetic Transmission Fluid 50	SAE 50
Industrial Oils Unlimited	Hi-Tek Synthetic SAE 50	SAE 50
International Truck & Engine Corp.	Fleetrite Synthetic SAE 50 Transmission Oil	SAE 50
Irving Oil Ltd.	IDO Synthetic 50	SAE 50
Lubricant Engineers, Inc.	SYNOLEC SAE 50 (650)	SAE 50
MACK Trucks, Inc.	Bulldog Syn Trans Lube SAE 50	SAE 50
MACK Trucks, Inc. - Canada	Roadranger SAE 50	SAE 50

<b>Supplier</b>	<b>Brand Name</b>	<b>Viscosity Grade</b>
Marathon Petroleum LLC	Marathon Full Synthetic SAE 50	SAE 50
Mexicana de Lubricantes S.A. de C.V.	Akron Vector S MTF SAE 50	SAE 50
Mtrlube International	Roadranger SAE 50	SAE 50
Mystik Lubricants	SX-7000 50	SAE 50
NemCo Resources Ltd.	NEMCO Syntrans 50	SAE 50
Northland Products Co., Inc.	Northland Synergy Synthetic Trans Fluid 50W	SAE 50
Paccar Parts	Peterbilt SAE 50 Original Factory Fill Fluid	SAE 50
	Kenworth SAE 50 Original Factory Fill Fluid	SAE 50
Pennzoil	Pennzoil Long Life Transmission Fluid EW-50	SAE 50
Penrite Oil Co. Pty. Ltd.	Penrite Synfleet 50	SAE 50
Petro-Canada Lubricants	Traxon E CD-50	SAE 50
Pinnacle Oil, Inc.	National Full Synthetic SAE 50	SAE 50
Productos Chevron Texaco Mexico S.A. de C.V.	Chevron DELO Synthetic Transmission Fluid SAE 50	SAE 50
	Texaco Ursa Synthetic TL 50	SAE 50
Raloy Lubricantes, S.A. de C.V.	Raloy Transintex Plus SAE 50	SAE 50
Royal Manufacturing Company, LP	Monarch SynGear Plus SAE 50	SAE 50
Schaeffer Manufacturing Co.	Schaeffer 742 Synthetic Lube 50W E/A	SAE 50
Sea Land	Roadranger SAE 50	SAE 50
Shell Company of Australia Ltd.	Shell Spirax® S6 GME 50	SAE 50
	Shell Spirax® GSX SAE 50	SAE 50
Shell International Petroleum Co. Ltd.	Shell Spirax® S6 GME 50	SAE 50
	Shell Spirax® GSX SAE 50	SAE 50
Synergy Additives Company S.A. de C.V.	Synergy Syntech 50	SAE 50
Texas Refinery Corp.	Syntex 2000	SAE 50
Total Lubricants Canada	Transmission SYN SAE 50	SAE 50
Total Lubricants USA Southwest, LLC	Transmission SYN 50	SAE 50
Ultramar Ltd.	Ultramar Synthetic SAE 50	SAE 50
Valvoline Australia Pty Ltd.	Valvoline HD Synthetic Trans Fluid SAE 50	SAE 50
The Valvoline Inc. (Sub. of Ashland Oil, Inc.)	Valvoline HD Synthetic Trans Oil SAE 50	SAE 50
VOLVO Trucks North America	Roadranger SAE 50	SAE 50
	VOLVO Synthetic Transmission Fluid	SAE 50
VOLVO Trucks Canada	Roadranger SAE 50	SAE 50
Warren Oil Company, Inc.	Service Pro Synthetic SAE 50	SAE 50
	Autoguard Fleet Synthetic SAE 50	SAE 50
	Lubriguard Heavy Duty Synthetic SAE 50	SAE 50