



客车和卡车的车桥及轮边

润滑油清单 TE-ML 12

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1. 客车车桥和轮边

产品组	保养注油的润滑油等级 ⁽¹⁾
车桥 A 系列, 轮边 RL 系列	ZF EcoFluid X SAE 80W-90 12B / 12E / 12M / 12N
低地板门式车桥 AV 系列	ZF EcoFluid X SAE 80W-90 12B / 12E / 12M / 12N ZF EcoFluid XL SAE 75W-85 12F
低地板门式车桥 AV 133 带效能包	ZF EcoFluid XL SAE 75W-85 12F
脂润滑的车轮轴承, 前后车桥带分体轴承	12G
前后车桥轮边的轮毂轴承单元 (Hub Unit)	12H
一般润滑点	12G
一般润滑点 采用集中润滑装置润滑	12P

润滑油清单 TE-ML 12, 版本 01.04.2026 取代所有之前的版本。各最新清单可在各 ZF 售后服务点获取或通过网址 www.aftermarket.zf.com/cn/lubricants 进行查看。

ZF Friedrichshafen AG (ZF 股份公司)
D-88038 Friedrichshafen (腓德烈斯哈芬市)
www.zf.com/contact

2. 客车电动车桥

产品组	保养注油的润滑油等级 ⁽¹⁾
AVE 130	ZF EcoFluid X SAE 80W-90 12L
AVE 130 中后车桥轮边的轮毂轴承单元 (Hub Unit)	12H

3. 卡车车桥

产品组	保养注油的润滑油等级 ⁽¹⁾
APL 9000、APL 90	ZF EcoFluid X SAE 80W-90 12B / 12E / 12M / 12N / 12S ZF EcoFluid XL SAE 75W-85 12F
APL 90 前轮边的轮毂轴承单元 (Hub Unit)	12H
一般润滑点	12G

4. 油位检查、换油换脂周期、采埃孚膜片通风机维护

4.1 客车车桥及轮边（A、AV 和 RL 系列）

润滑油等级	使用条件	油位检查	换油周期和 采埃孚膜片通风机维护 ⁽⁴⁾	换油周期和 采埃孚膜片通风机维护 ⁽⁴⁾ 高温地区使用 ⁽³⁾
12B、12E	专线交通 城市交通 城郊交通 城际交通	每次更换发动机油 时	150,000 km / 3 年 ⁽²⁾	60,000 km / 1 年 ⁽²⁾
	用于城际交通和城郊交通的，配有采埃孚膜片通风机的 A 133 车桥		200,000 km / 3 年 ⁽²⁾	100,000 km / 1 年 ⁽²⁾
ZF EcoFluid X SAE 80W-90 12M、12N	专线交通 城市交通 城郊交通 城际交通		180,000 km / 3 年 ⁽²⁾	120,000 km / 2 年 ⁽²⁾
	用于城际交通和城郊交通的，配有采埃孚膜片通风机的 A 133 车桥		300,000 km / 3 年 ⁽²⁾	200,000 km / 2 年 ⁽²⁾
ZF EcoFluid XL SAE 75W-85 12F	专线交通 城市交通 城郊交通 配备低地板门式车桥 AV 系列		180,000 km / 3 年 ⁽²⁾	120,000 km / 2 年 ⁽²⁾
	专线交通 市内交通 长途交通 配备低地板门式车桥 AV 133, 带效能包		300,000 km / 5 年 ⁽²⁾	180,000 km / 3 年 ⁽²⁾

润滑脂等级	使用条件	检查	更换周期
12H - 前后车桥轮边的 轮毂轴承单元 (Hub Unit)	专线交通 城郊交通	参见 ZF 操作手册	500,000 km / 4 年 ⁽²⁾
	城际交通		800,000 km / 6 年 ⁽²⁾
	轮毂轴承 RL 55		全寿命润滑 (参见 ZF 操作手册)
12G - 脂润滑的车轮轴承, 前后车桥带分体轴承	专线交通 城郊交通 城际交通		500,000 km / 2 年 ⁽²⁾
12G - 一般润滑点	专线交通 城郊交通 城际交通		二次润滑 80,000 km / 1 年 ⁽²⁾ 2025 年 3 月后生产的车桥, 120,000 km / 1 年 ⁽²⁾
12P - 一般润滑点 采用集中润滑装置润滑	专线交通 城郊交通 城际交通	定期检查各润滑点是否 漏油	遵守集中润滑装置制造商的 规定

4.2 客车电动车桥 (AVE 130)

润滑油等级	使用条件	油位检查	换油周期
ZF EcoFluid X SAE 80W-90 12L	专线运输	参见 ZF 操作手册	60,000 km / 1 年 ⁽²⁾





润滑脂等级	使用条件	检查	更换周期
12H – AVE 130 中后车桥轮边的 轮毂轴承单元 (Hub Unit)	专线运输	参见 ZF 操作手册	500,000 km / 4 年 ⁽²⁾

4.3 卡车车桥 (APL 9000、APL 90)

润滑油等级	使用条件	油位检查	换油周期
ZF EcoFluid X SAE 80W-90 12B、12E、12M、12N、12S ZF EcoFluid XL SAE 75W-85 12F	-	每次更换发动机时	10,000 km 后首次换油 此后换油间隔 120,000 km / 2 年 ⁽²⁾

润滑脂等级	使用条件	检查	更换周期
12H - APL 90 前轮边的轮毂轴承单元 (Hub Unit)	-	参见车辆制造商的规定	500,000 km / 4 年 ⁽²⁾
12G - 一般润滑点	-		根据车辆制造商的规定进行二次润滑

5. 低温限值

粘度等级	在外界温度下使用	
SAE 75W-85、75W-90、75W-110、75W-140	- 40°C	
SAE 80W-90、80W-110、80W-140	- 26°C	
SAE 85W-90、85W-110、85W-140	- 12°C	
SAE 90	- 5°C	

6. 脚注和备注说明

脚注

- (1) 认可的商品- 参见下页。
遵守第 2 和第 3 页中关于油位检查、换油换脂周期、透气阀维护 (ZF 透气阀) 的提示。
同一润滑油等级内或跨润滑油等级改变油品类型时, 允许与车桥中的残余油品混合。
- (2) 需要更换, 以先到期为准。
- (3) “高温地区”不是针对国家, 而是针对车辆使用地区。
就 ZF 总成而言, 在如下情况下, 我们称其为在“高温地区使用”:
1. 一年内有两个月以上月平均气温超过 25°C
2. 或一年内有七天以上的温度超过 40°C
可能的国家和地区:
- 美洲: 墨西哥、美国 (南部和沙漠地区)
- 整个非洲 (南非除外)
- 中东地区: 孟加拉国、印度 (地区)、巴基斯坦、阿富汗、斯里兰卡
- 近东地区: 伊朗、伊拉克、科威特、巴林、阿曼、卡塔尔、沙特阿拉伯、阿拉伯联合酋长国、也门、以色列、黎巴嫩、叙利亚、埃及、约旦
- 澳大利亚 (沙漠地区)
- 中国 (沙漠地区)
- (4) 每次更换机油时, 必须更换采埃孚膜片通风机的滤网嵌套 (参见 ZF 服务信息 13/16 或 11/17)

备注

随后添加到油中的任何类型的添加剂, 都会以不可估计的方式使油发生变化, 因此是不允许的。ZF 对因使用这些添加剂导致的任何损害不承担责任

7. 润滑油等级和认可的商品

润滑油等级 12B

变速箱油

粘度等级:SAE 75W-90

制造商 (12B)

CASTROL LTD, LONDON/GB
CASTROL LTD, LONDON/GB

产品名称 (12B)

CASTROL TRANSMAX AXLE LONG LIFE 75W-90
CASTROL SAF-XO 75W-90

ZF 认可编号

ZF002142
ZF006097

润滑油等级 12E

变速箱油

粘度等级:SAE 80W-90 / 85W-90 / 90

制造商 (12E)

ADDINOL LUBE OIL GMBH, LEUNA/DE
AVIA AG, MÜNCHEN/DE
BAPCO REFINING, AWALI/BH
BAPCO REFINING, AWALI/BH
BELGIN MADENI YAGLAR TIC. VE SAN. A.S., KOCAELI/TR
CASTROL LTD, LONDON/GB
CASTROL LTD, LONDON/GB
CASTROL LTD, LONDON/GB
CLASS KGAA MBH, HARSEWINKEL/DE
CLASS KGAA MBH, HARSEWINKEL/DE
CYCLON HELLAS SA, ATHENS/GR
EKO ABEE, ATHENS/GR
ENILIVE S.P.A., ROME/IT
EXXONMOBIL CORPORATION, HOUSTON, TX/US
FINKE MINERALÖLWERK GMBH, 27374 VISSELHÖVEDE/DE
FUCHS PETROLUB SE, MANNHEIM/DE
FUCHS PETROLUB SE, MANNHEIM/DE
FUCHS PETROLUB SE, MANNHEIM/DE
FUCHS PETROLUB SE, MANNHEIM/DE
GS CALTEX CORPORATION, SEOUL/KR
HILL CORPORATION, SHYMKENT/KZ
HUILES BERLIET S.A., SAINT-PRIEST/FR
MOEVE COMMERCIAL S.A.U., MADRID/ES
MOEVE COMMERCIAL S.A.U., MADRID/ES
MOL-LUB KFT, ALMASFUZITO/HU
ORLEN S.A., GDANSK/PL
PETROL OFISI A.S., ISTANBUL/TR
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/DE
ROLF LUBRICANTS GMBH, LEVERKUSEN/DE
S.I.R.A.L. SPA, NOLA NAPOLI/IT
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
SINGAPORE PETROLEUM COMPANY LIMITED, SINGAPORE/SG
SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
TEXSA DO BRASIL LTDA, UMUARAMA/PR/BR
TEXSA DO BRASIL LTDA, UMUARAMA/PR/BR
TEXSA DO BRASIL LTDA, UMUARAMA/PR/BR
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
ZELLER+GMELIN GMBH&CO.KG, EISLINGEN/DE

产品名称 (12E)

ADDINOL GETRIEBEÖL GX 80 W 90
AVIA POWERTRAIN AX 85W-90
SPAREX EP 90 GL-5
SPAREX EP 80W-90 GL-5
BELGIN LUBEX MITRAS AX EP PLUS 80W-90
CASTROL AXLE EPX 80W-90
CASTROL AXLE EPX 80W-90
CASTROL TRANSMAX AXLE EPX 80W-90
AGRISHIFT MT 80W-90
AGRISHIFT MT 80W-90
GEAR EP GL-5 80W-90
EKO GEAROL-5 80W-90
ENI ROTRA MP 80W-90
MOBIL DELVAC MODERN AXLE OIL 80W-90 HDA
AVIATICON HYPOID EP 80W-90
FUCHS TITAN SUPERGEAR SAE 80W-90
FUCHS AGRIFARM GEAR SAE 80W-90
PENTOSIN GEAR SAE 80W-90
TITAN SUPERGEAR PLUS SAE 80W-90
KIXX GEARTEC X GL-5 80W-90
FASTROL MTF5 80W-90
LONGEVIA HD 80W-90
CEPSA TRANSMISIONES EP 80W-90
MAN SUPER AXLE 342-M2
MOL HYKOMOL ZF 80W90
LOTOS TITANIS GL-5 80W-90
MAXIGEAR EP-X 80W-90
ARBOR TRW 90 (SAE 80W-90)
AMBRA HYPOIDE 90 (SAE 80W-90)
AKCELA GEAR 135H EP (SAE 80W-90)
AKROS GEAR EP 90 (SAE 80W-90)
TUTELA TRANSMISSION W90/LA (SAE 80W-90)
ARBOR TRW 90 (SAE 80W-90)
AMBRA HYPOIDE 90 (SAE 80W-90)
TUTELA TRANSMISSION W 90/LA (SAE 80W-90)
ARBOR TRW 90 (SAE 80W-90)
AKCELA GEAR 135H EP (SAE 80W-90)
AKROS GEAR EP 90 (SAE 80W-90)
PETRONAS TUTELA AXLE 300 80W-90
PETRONAS TUTELA AXLE 300 80W-90
RAVENOL SLG SAE 80W-90
ROLF TRANSMISSION M5 A 80W-90
TRANSMISSION 80W-90 GL5
SHELL SPIRAX S3 AX 80W-90
SHELL SPIRAX S3 AX 80W-90
SHELL SPIRAX S3 AX 80W-90
SHELL SPIRAX S3 AX 80W-90
SHELL SPIRAX S3 AX 80W-90
SHELL SPIRAX S3 AX 80W-90
GEARLUBE HG M2 SAE 80W-90
SRS WIOLIN HL 5 SAE 80W-90
SRS WIOLIN HL 5 SAE 85W-90
TEXSA GEAR MULTI GL-5 90
TEXSA GEAR MULTI GL-5 80W90
MONTANA DYNAMIC TRACTOGEAR 5 80W90
DYNATRANS HD 80W-90
TRAXIUM AXLE 7 80W-90
TRAXIUM AXLE 7 80W-90
TRANSELF TYPE B 80W-90
TRANSELF TYPE B 80W-90
DYNATRANS HD 80W 90
TRAXIUM AXLE 7 80W-90
TRAXIUM AXLE 7 80W-90
DIVINOL GETRIEBEÖL ST 80W90

ZF 认可编号

ZF003620
ZF012196
ZF002316
ZF002317
ZF011935
ZF001320
ZF001754
ZF002163
ZF008203
ZF008233
ZF001604
ZF003351
ZF000855
ZF009835
ZF012141
ZF000647
ZF003624
ZF004809
ZF010958
ZF003553
ZF003435
ZF008396
ZF000084
ZF000966
ZF001118
ZF005949
ZF001499
ZF000007
ZF000231
ZF000232
ZF000233
ZF000516
ZF001201
ZF003638
ZF003640
ZF003641
ZF003642
ZF003658
ZF003703
ZF012051
ZF005984
ZF003629
ZF006100
ZF010960
ZF010963
ZF010962
ZF010959
ZF010961
ZF008187
ZF005976
ZF001911
ZF001912
ZF001941
ZF001942
ZF003665
ZF008196
ZF008224
ZF008225
ZF008227
ZF008231
ZF008232
ZF011486
ZF011518
ZF012095

润滑油等级 12F
变速箱油
粘度等级:SAE 75W-85

制造商 (12F)
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE

产品名称 (12F)
SHELL SPIRAX S6 AZME 75W-85
ZF ECOFLUID XL SAE 75W-85

ZF 认可编号
ZF004894
ZF003441

润滑油等级 12G

符合规格/要求的多用途润滑脂:

- 符合 DIN 51825 KP2K-30 或
ISO 6743-9 ISO-L-XCCEB2 或
ISO 6743-9 ISO-L-XCCHB2 标准
- 基础油:矿物油或合成烃(无酯类)
- 稠化剂类型:Ca(钙)、Li(锂)皂基稠化剂(简单/混合/复合)
- 稠度等级:NLGI 2
- EP 添加剂
- 温度限值:低 -20°C 至 +120°C

提示:

-所有符合上述规格/要求的市售产品均可以使用。

没有产品清单。

当外界温度高于-30°C 时, 也可使用符合以下标准的润滑脂:

DIN 51825 KP2K-20 或
ISO 6743-9 ISO-L-XBCEB2 或
ISO 6743-9 ISO-L-XBCHB2

润滑油等级 12H
用于轮毂轴承单元 (Hub Unit) 长期润滑的润滑脂

制造商 (12H)	产品名称 (12H)	ZF 认可编号
FUCHS PETROLUB SE, MANNHEIM/DE	RENOLIT LX-PEP 2-OEM	ZF012094
FUCHS PETROLUB SE, MANNHEIM/DE	RENOLIT LX-NHU 2 - OEM	ZF012093
ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE	ZF RENOLIT LX-PEP 2	ZF012109

润滑油等级 12L

变速箱油

粘度等级:SAE 75W-90 / 80W-90

制造商 (12L)

ADDINOL LUBE OIL GMBH, LEUNA/DE
ADDINOL LUBE OIL GMBH, LEUNA/DE
AVIA AG, MÜNCHEN/DE
AVIA AG, MÜNCHEN/DE
AVIA AG, MÜNCHEN/DE
AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE
AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE
BAYWA AG MÜNCHEN, MÜNCHEN/DE
BELGIN MADENI YAGLAR TIC. VE SAN. A.S., KOCAELI/TR
BELGIN MADENI YAGLAR TIC. VE SAN. A.S., KOCAELI/TR
BLASER SWISSLUBE AG, HASLE-RÜEGSAU/CH
BLASER SWISSLUBE AG, HASLE-RÜEGSAU/CH
CASTROL LTD, LONDON/GB
CASTROL LTD, LONDON/GB
CASTROL LTD, LONDON/GB
CHAMPION CHEMICALS N.V., HEMIKSEM/BE
CHEVRON LUBRICANTS, SAN RAMON, CA/US
CHEVRON LUBRICANTS, SAN RAMON, CA/US
CONDAT LUBRIFIANTS, CHASSE SUR RHONE/FR
DE OLIEBRON BV, ZWIJNDRECHT/NL
DEUTSCHE ÖLWERKE LUBMIN, LUBMIN/DE
ELLIS ENTERPRISES EAST D.O.O. KRUSEVAC, KRUŠEVAC/RS
ELLIS ENTERPRISES EAST D.O.O. KRUSEVAC, KRUŠEVAC/RS
ENILIVE S.P.A., ROME/IT
ENILIVE S.P.A., ROME/IT
EXXONMOBIL CORPORATION, HOUSTON, TX/US
EXXONMOBIL CORPORATION, HOUSTON, TX/US
EXXONMOBIL CORPORATION, HOUSTON, TX/US
EXXONMOBIL CORPORATION, HOUSTON, TX/US
EXXONMOBIL CORPORATION, HOUSTON, TX/US
EXXONMOBIL CORPORATION, HOUSTON, TX/US
EXXONMOBIL CORPORATION, HOUSTON, TX/US
FINKE MINERALÖLWERK GMBH, 27374 VISSELHÖVEDE/DE
FINKE MINERALÖLWERK GMBH, 27374 VISSELHÖVEDE/DE
FUCHS PETROLUB SE, MANNHEIM/DE
FUCHS PETROLUB SE, MANNHEIM/DE
FUCHS PETROLUB SE, MANNHEIM/DE
FUCHS PETROLUB SE, MANNHEIM/DE
FUCHS PETROLUB SE, MANNHEIM/DE
FUCHS PETROLUB SE, MANNHEIM/DE
FUCHS PETROLUB SE, MANNHEIM/DE
FUCHS PETROLUB SE, MANNHEIM/DE
GULF OIL INTERNATIONAL, MUMBAI/IN
GULF OIL INTERNATIONAL, MUMBAI/IN
GULF OIL INTERNATIONAL, MUMBAI/IN
HUILES BERLIET S.A., SAINT-PIERST/FR
HUILES BERLIET S.A., SAINT-PIERST/FR
IGOL FRANCE, AMIENS/FR
INA MAZIVA LTD., ZAGREB/HR
INA MAZIVA LTD., ZAGREB/HR
KUWAIT PETROLEUM (BELGIUM) N.V., ANTWERP/BE
KUWAIT PETROLEUM (BELGIUM) N.V., ANTWERP/BE
LAEMMLE CHEMICALS AG, MADETSWIL/CH
LAEMMLE CHEMICALS AG, MADETSWIL/CH
LIEBHERR HYDRAULIKBAGGER GMBH, KIRCHDORF/DE
LIQUI MOLY GMBH, ULM/DE
LIQUI MOLY GMBH, ULM/DE
LUKOIL LUBRICANTS EUROPE GMBH, VIENNA/AT
LUKOIL LUBRICANTS EUROPE GMBH, VIENNA/AT
LUKOIL LUBRICANTS EUROPE GMBH, VIENNA/AT
LUKOIL LUBRICANTS EUROPE GMBH, VIENNA/AT
MEGUIN GMBH & CO. KG, SAARLOUIS/DE
MEGUIN GMBH & CO. KG, SAARLOUIS/DE
MOEVE COMMERCIAL S.A.U., MADRID/ES
MOEVE COMMERCIAL S.A.U., MADRID/ES
MOL-LUB KFT, ALMASFUZITO/HU
MOTOREX AG, LANGENTHAL/CH
MOTOREX AG, LANGENTHAL/CH
MOTOREX AG, LANGENTHAL/CH
MOTOREX AG, LANGENTHAL/CH
MOTOREX AG, LANGENTHAL/CH
MOTUL SA, AUBERVILLIERS/FR
OEL-BRACK AG, HUNZENSCHWIL/CH
OEST LUBRICANTS GMBH & CO.KG, FREUDENSTADT/DE
OEST LUBRICANTS GMBH & CO.KG, FREUDENSTADT/DE
OPET FUCHS MADENI YAG SAN. VE TIC. A.S., IZMIR/TR
ORLEN OIL SP. Z O.O., KRAKOW/PL
ORLEN S.A., GDANSK/PL
PAKELO MOTOR OIL S.P.A. A S.U., SAN BONIFACIO (VR)/IT
PETROGAL S.A., LISBOA/PT
PETROGAL S.A., LISBOA/PT
PETROL OFISI A.S., ISTANBUL/TR

产品名称 (12L)

ADDINOL GETRIEBEÖL GX 80W-90 ML
ADDINOL GETRIEBEÖL GH 75 W 90 SL
AVIA POWERTRAIN SUPREME GAX 75W-90
AVIA POWERTRAIN GAX 80W-90
AVIA POWERTRAIN PREMIUM AX 80W-90
AVISTA PEER EVO GL4/GL5 SAE 80W-90
AVISTA PEER EVO PRIME GL4/GL5 SAE 80W-90
TECTROL MULTIGEAR PLUS 8090
BELGIN LUBEX MITRAS AX SYN ULTRA 75W-90
BELGIN LUBEX MITRAS AX EP MD 80W-90
EVOLCA SGP 75W90
EVOLCA BGP 80W90
CASTROL TRANSMAX UNIVERSAL LL 80W-90
CASTROL TRANSMAX UNIVERSAL LL 75W-90
CASTROL TRANSMAX AXLE LONG DRAIN 80W-90
CHAMPION OEM SPECIFIC 75W90 GL 5
DELO GEAR TDL 80W-90
DELO SYN-TDL 75W-90
GEAR TXS 75W90
TOR UNI GEAR LD 75W90
AVENO TDL ULTIMATE 75W-90
MULTIHIPO 75W-90 SINT
MULTIHIPO 80W-90 F PLUS
ENI ROTRA LSX 75W-90
ENI ROTRA MP 75W-90
MOBILUBE 1 SHC 75W-90
MOBILUBE HD-A PLUS 80W-90
MOBILUBE S 80W-90
MOBIL DELVAC 1 GEAR OIL 75W-90
MOBIL DELVAC ULTRA TOTAL DRIVELINE 75W-90
MOBIL DELVAC MODERN AXLE OIL 80W-90
MOBILUBE S 80W-90
AVIATICON FINKOGEAR PREMIUM 75W-90
AVIATICON FINKOGEAR SUPER 80W-90
FUCHS TITAN CYTRAC HSY SAE 75W-90
FUCHS TITAN GEAR HYP LD SAE 80W-90
FUCHS TITAN SUPERGEAR MC SAE 80W-90
FUCHS TITAN CYTRAC RR SAE 75W-90
GEARWAY S5 75W-90
GEARWAY G5 80W-90
FUCHS TITAN CYTRAC TD SAE 75W-90
PENTOSIN GEAR PRO SAE 75W-90
PENTOSIN GEAR ULTRA SAE 75W-90
GULF GEAR TDL 80W-90
GULF SYNGEAR 75W-90
GULF GEAR LD 80W-90
LONGEVIA TC ECO 80W-90
LONGEVIA TCX ECO 75W-90
SYNTHEGEAR 75W-90
INA HIPENOL TDL 80W-90
INA HIPENOL SHD 75W-90
Q8 TRANS XGS 75W-90
Q8 GEAR OIL XG SAE 80W-90
ROXOR SUPER DUTY SYNTH 75W-90
ROXOR TOPGEAR 80W-90
LIEBHERR SYNTOGEAR PLUS 75W-90
LIQUI MOLY HYPOID GETRIEBEÖL TDL SAE 80W-90
LIQUI MOLY VOLL SYN. HYPOID GETR.ÖL TRUCK (75W-90)
LUKOIL TRANSMISSION LD 80W-90
LUKOIL TRANSMISSION SYNTH BSX 75W-90
LUKOIL TRANSMISSION MN 75W-90
LUKOIL TRANSMISSION UNI 80W-90
MEGOL HYPOID-GETRIEBEOEL TDL 80W-90
MEGOL GETRIEBEOEL TRUCK-SYNTH SAE 75W-90
CEPSA TRANSMISIONES EP FE+LD 75W-90
MAN SUPER AXLE 3343 75W-90
MOL HYKOMOL TDL 75W90
YORK 896 75W90
MOTOREX YORK PENTA TL SAE 75W/90
MOTOREX YORK GEAR ZX TP SAE 80W/90
MOTOREX_YORK UNIVERSAL CT SAE 80W/90
MOTOREX YORK UNISYNT ZX SAE 75W90
MOTUL GEAR SYNTH TDL 75W-90
MIDLAND SENSOGEAR 75W-90
OEST SYNTH GETRIEBEÖL SAE 75W-90
OEST GETRIEBEÖL FE SAE 80W-90 GL4/5
OTOKAR SPECTRA DO Z 80W-90
ORLEN OIL GEAR LL 80W-90
TITANIS SUPER GL-5 80W-90
GLOBAL MULTIGEAR TS SAE 75W/90
GALP TRANSVEX TDL 75W90
GALP TRANSOIL HP XT 80W90
MAXIGEAR TECH EP-X 80W-90

ZF 认可编号

ZF000672
ZF002260
ZF012039
ZF012197
ZF012198
ZF004780
ZF004797
ZF012143
ZF005978
ZF006035
ZF004734
ZF004735
ZF002143
ZF002144
ZF004885
ZF003554
ZF002273
ZF003353
ZF000829
ZF000964
ZF010792
ZF000653
ZF001456
ZF000860
ZF003364
ZF000041
ZF000042
ZF000776
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ZF003699
ZF012014
ZF012155
ZF002249
ZF002299
ZF000642
ZF000645
ZF000722
ZF000732
ZF001030
ZF001036
ZF003341
ZF004930
ZF004931
ZF000780
ZF000863
ZF001950
ZF008379
ZF008392
ZF008361
ZF000432
ZF000977
ZF000179
ZF002103
ZF009457
ZF010966
ZF006012
ZF001323
ZF001347
ZF010982
ZF010972
ZF012099
ZF012150
ZF001183
ZF001291
ZF000086
ZF000965
ZF003365
ZF000550
ZF006007
ZF006006
ZF006108
ZF008207
ZF000825
ZF003680
ZF000491
ZF000565
ZF004755
ZF011188
ZF001098
ZF001224
ZF000980
ZF001981
ZF001665

制造商 (12L)

PETROL OFISI A.S., ISTANBUL/TR
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
PHI OIL GMBH, ST. GEORGEN/AT
PHI OIL GMBH, ST. GEORGEN/AT
RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/DE
RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/DE
REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
ROLF LUBRICANTS GMBH, LEVERKUSEN/DE
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
SINOPEC LUBRICANT CO., LTD., BEIJING/CN
SINOPEC LUBRICANT CO., LTD., BEIJING/CN
SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
TEDEX S.A., LUBOCHNIA/PL
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
VALVOLINE EUROPE, DORDRECHT/NL
VALVOLINE EUROPE, DORDRECHT/NL
WILHELM HOYER B.V. & CO. KG, VISSSELHÖVEDE/DE
WILHELM HOYER B.V. & CO. KG, VISSSELHÖVEDE/DE
WOLF OIL CORPORATION N.V., HEMIKSEM/BE
YACCO SAS, ST PIERRE LES ELBEUF/FR
ZELLER+GMELIN GMBH&CO.KG, EISLINGEN/DE
ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE

产品名称 (12L)

MAXIGEAR D 75W-90
TUTELA TRANSMISSION FE-AXLE (SAE 75W-90)
TUTELA TRANSMISSION STARGEAR AX-ED (SAE 75W-90)
PETRONAS TUTELA AXLE 700 EHD 75W-90
UNIGEAR GOLD 75W90
UNIGEAR GOLD 75W90
RAVENOL GEAR SUPER SYNTH GSS SAE 75W-90
RAVENOL GEAR TRANS SYNTH GTS SAE 75W-90
REPSOL CARTAGO FE LD 75W90
REPSOL CARTAGO LD 80W90
REPSOL NAVIGATOR FE LL 75W-90
REPSOL NAVIGATOR LL 80W-90
ROLF TRANSMISSION S9 AGE 75W-90
SHELL SPIRAX S3 AD 80W-90
SHELL SPIRAX S3 AM 80W-90
SHELL SPIRAX S6 AXME 75W-90
SHELL SPIRAX S6 ADME 75W- 90
SINOPEC GREATWALL VT 75W/90
SINOPEC MULTIPURPOSE-II GEAR OIL 80W-90
SRS GETRIEBEFLUID SML 80W-90
SRS GETRIEBEFLUID SXL 75W-90
SRS WIOLIN HGAV 80W-90
TEDEX SUPER GEAR OIL (TDL) SAE 80W-90
TRAXIUM DUAL 8 FE 80W-90
TRAXIUM DUAL 9 FE 75W-90
TRAXIUM AXLE 9 80W-90
TRAXIUM AXLE 9 80W-90
TRANSELF SYN FE 75W-90
VALVOLINE HEAVY DUTY TDL PRO 75W-90
VALVOLINE HEAVY DUTY AXLE OIL PRO 80W-90 LD
HOYER GEAR F-FP 75W-90
HOYER GEAR M-FS 80W-90
WOLF OFFICIALTECH 75W90 GL 5
BVX 1000 75W-90
DIVINOL MULTI-AXLE 80W90
ZF ECOFLUID X SAE 80W-90

ZF 认可编号

ZF001591
ZF001199
ZF001738
ZF003639
ZF001203
ZF003606
ZF006037
ZF006038
ZF000451
ZF001141
ZF008268
ZF008269
ZF003626
ZF001237
ZF001292
ZF001262
ZF003334
ZF000527
ZF003332
ZF000447
ZF001655
ZF010330
ZF001342
ZF004817
ZF006074
ZF008229
ZF008230
ZF008393
ZF001283
ZF001837
ZF011993
ZF011992
ZF003525
ZF009462
ZF001684
ZF001266

润滑油等级 12M

变速箱油

粘度等级:SAE SAE 80W-90 / 85W-90 / 90

制造商 (12M)

ADDINOL LUBE OIL GMBH, LEUNA/DE
AVIA AG, MÜNCHEN/DE
AVIA AG, MÜNCHEN/DE
AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE
AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE
BAYWA AG MÜNCHEN, MÜNCHEN/DE
BELGIN MADENI YAGLAR TIC. VE SAN. A.S., KOCAELI/TR
BELGIN MADENI YAGLAR TIC. VE SAN. A.S., KOCAELI/TR
BLASER SWISSLUBE AG, HASLE-RÜEGSAU/CH
CASTROL LTD, LONDON/GB
CASTROL LTD, LONDON/GB
CHEVRON LUBRICANTS, SAN RAMON, CA/US
CHEVRON LUBRICANTS, SAN RAMON, CA/US
CHEVRON LUBRICANTS, SAN RAMON, CA/US
ELLIS ENTERPRISES EAST D.O.O. KRUSEVAC, KRUŠEVAC/RS
EXXONMOBIL CORPORATION, HOUSTON, TX/US
EXXONMOBIL CORPORATION, HOUSTON, TX/US
EXXONMOBIL CORPORATION, HOUSTON, TX/US
EXXONMOBIL CORPORATION, HOUSTON, TX/US
EXXONMOBIL CORPORATION, HOUSTON, TX/US
EXXONMOBIL CORPORATION, HOUSTON, TX/US
FINKE MINERALÖLWERK GMBH, 27374 VISSELHÖVEDE/DE
FUCHS PETROLUB SE, MANNHEIM/DE
FUCHS PETROLUB SE, MANNHEIM/DE
FUCHS PETROLUB SE, MANNHEIM/DE
FUCHS PETROLUB SE, MANNHEIM/DE
GULF OIL INTERNATIONAL, MUMBAI/IN
GULF OIL INTERNATIONAL, MUMBAI/IN
HUILES BERLIET S.A., SAINT-PRIEST/FR
INA MAZIVA LTD., ZAGREB/HR
KUWAIT PETROLEUM (BELGIUM) N.V., ANTWERP/BE
LAEMMLE CHEMICALS AG, MADETSWIL/CH
LIQUI MOLY GMBH, ULM/DE
LUKOIL LUBRICANTS EUROPE GMBH, VIENNA/AT
LUKOIL LUBRICANTS EUROPE GMBH, VIENNA/AT
MEGUIN GMBH & CO. KG, SAARLOUIS/DE
MOTOREX AG, LANGENTHAL/CH
MOTOREX AG, LANGENTHAL/CH
OEST LUBRICANTS GMBH & CO.KG, FREUDENSTADT/DE
OPET FUCHS MADENI YAG SAN. VE TIC. A.S., IZMIR/TR
ORLEN OIL SP. Z O.O., KRAKOW/PL
ORLEN S.A., GDANSK/PL
PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA
PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA
PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA
PETROGAL S.A., LISBOA/PT
PETROL OFISI A.S., ISTANBUL/TR
REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
SINOPEC LUBRICANT CO., LTD., BEIJING/CN
SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
TEDEX S.A., LUBOCHNIA/PL
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
VALVOLINE EUROPE, DORDRECHT/NL
VALVOLINE GLOBAL PRODUCTS, LEXINGTON/US
WILHELM HOYER B.V. & CO. KG, VISSELHÖVEDE/DE
ZELLER+GMELIN GMBH&CO.KG, EISLINGEN/DE
ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE

产品名称 (12M)

ADDINOL GETRIEBEÖL GX 80W-90 ML
AVIA POWERTRAIN GAX 80W-90
AVIA POWERTRAIN PREMIUM AX 80W-90
AVISTA PEER EVO GL4/GL5 SAE 80W-90
AVISTA PEER EVO PRIME GL4/GL5 SAE 80W-90
TECTROL MULTIGEAR PLUS 8090
BELGIN LUBEX MITRAS AX EP MD 80W-90
BELGIN LUBEX MITRAS AX EP EXTRA 80W-90
EVOLCA BGP 80W90
CASTROL TRANSMAX UNIVERSAL LL 80W-90
CASTROL TRANSMAX AXLE LONG DRAIN 80W-90
MULTIGEAR EP-5 SAE 80W-90
DELO GEAR TDL 80W-90
DELO GEAR EP-5 SAE 80W-90
MULTIHIPO 80W-90 F PLUS
MOBILUBE HD-A PLUS 80W-90
MOBILUBE S 80W-90
MOBIL DELVAC MODERN AXLE OIL 80W-90 V1
MOBIL DELVAC MODERN AXLE OIL 80W-90 V1
MOBIL DELVAC MODERN AXLE OIL 80W-90
MOBILUBE S 80W-90
AVIATICON FINKOGEAR SUPER 80W-90
FUCHS TITAN GEAR HYP LD SAE 80W-90
FUCHS TITAN SUPERGEAR MC SAE 80W-90
GEARWAY G5 80W-90
PENTOSIN GETRIEBEÖL O-226 80W-90
GULF GEAR TDL 80W-90
GULF GEAR LD 80W-90
LONGEVIA TC ECO 80W-90
INA HIPENOL TDL 80W-90
Q8 GEAR OIL XG SAE 80W-90
ROXOR TOPGEAR 80W-90
LIQUI MOLY HYPOID GETRIEBEÖL TDL SAE 80W-90
LUKOIL TRANSMISSION LD 80W-90
LUKOIL TRANSMISSION UNI 80W-90
MEGOL HYPOID-GETRIEBEOEL TDL 80W-90
MOTOREX_YORK UNIVERSAL CT SAE 80W/90
MOTOREX YORK GEAR ZX TP SAE 80W/90
OEST GETRIEBEÖL FE SAE 80W-90 GL4/5
OTOKAR SPECTRA DO Z 80W-90
ORLEN OIL GEAR LL 80W-90
TITANIS SUPER GL-5 80W-90
TRAXON 80W-90
TRAXON 80W-90
TRAXON 80W-90
GALP TRANSOIL HP XT 80W90
MAXIGEAR TECH EP-X 80W-90
REPSOL CARTAGO LD 80W90
REPSOL NAVIGATOR LL 80W-90
SHELL SPIRAX S3 AD 80W-90
SHELL SPIRAX S3 AM 80W-90
SHELL SPIRAX HD 80W- 90
SHELL SPIRAX HD 80W- 90
SHELL SPIRAX HD 80W- 90
SHELL SPIRAX S4 AX (80W-90)
SHELL SPIRAX S4 AX (80W-90)
SHELL SPIRAX S4 AX (80W-90)
SHELL SPIRAX S4 AX (80W-90)
SINOPEC MULTIPURPOSE-II GEAR OIL 80W-90
SRS GETRIEBEFLUID SML 80W-90
SRS WIOLIN HGAV 80W-90
TEDEX SUPER GEAR OIL (TDL) SAE 80W-90
TRAXIUM DUAL 8 FE 80W-90
TRAXIUM AXLE 9 80W-90
TRAXIUM AXLE 9 80W-90
VALVOLINE HEAVY DUTY AXLE OIL PRO 80W-90 LD
KUBOTA 80W-90 GEAR LUBRICANT HD
HOYER GEAR M-FS 80W-90
DIVINOL MULTI-AXLE 80W90
ZF ECOFLUID X SAE 80W-90

ZF 认可编号

ZF000672
ZF012197
ZF012198
ZF004780
ZF004797
ZF012143
ZF006035
ZF011981
ZF004735
ZF002143
ZF004885
ZF002137
ZF002273
ZF002270
ZF001456
ZF000042
ZF000776
ZF008180
ZF008311
ZF012014
ZF012155
ZF002299
ZF000645
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ZF000432
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ZF001323
ZF010982
ZF012150
ZF001183
ZF006108
ZF006006
ZF000565
ZF004755
ZF011188
ZF001098
ZF000764
ZF003389
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ZF003332
ZF000447
ZF010330
ZF001342
ZF004817
ZF008229
ZF008230
ZF001837
ZF008218
ZF011992
ZF001684
ZF001266

润滑油等级 12N

变速箱油

粘度等级:SAE 75W-90

制造商 (12N)

ADDINOL LUBE OIL GMBH, LEUNA/DE
AVIA AG, MÜNCHEN/DE
BASF SE, LUDWIGSHAFEN/DE
BELGIN MADENI YAGLAR TIC. VE SAN. A.S., KOCAELI/TR
BLASER SWISSLUBE AG, HASLE-RÜEGSAU/CH
CASTROL LTD, LONDON/GB
CHAMPION CHEMICALS N.V., HEMIKSEM/BE
CHEVRON LUBRICANTS, SAN RAMON, CA/US
CONDAT LUBRIFIANTS, CHASSE SUR RHONE/FR
DE OLIEBRON BV, ZWIJNDRECHT/NL
DEUTSCHE ÖLWERKE LUBMIN, LUBMIN/DE
ELLIS ENTERPRISES EAST D.O.O. KRUSEVAC, KRUŠEVAC/RS
ENILIVE S.P.A., ROME/IT
ENILIVE S.P.A., ROME/IT
EXXONMOBIL CORPORATION, HOUSTON, TX/US
EXXONMOBIL CORPORATION, HOUSTON, TX/US
EXXONMOBIL CORPORATION, HOUSTON, TX/US
FINKE MINERALÖLWERK GMBH, 27374 VISSELHÖVEDE/DE
FUCHS PETROLUB SE, MANNHEIM/DE
FUCHS PETROLUB SE, MANNHEIM/DE
FUCHS PETROLUB SE, MANNHEIM/DE
FUCHS PETROLUB SE, MANNHEIM/DE
FUCHS PETROLUB SE, MANNHEIM/DE
FUCHS PETROLUB SE, MANNHEIM/DE
GULF OIL INTERNATIONAL, MUMBAI/IN
HUILES BERLIET S.A., SAINT-PRIEST/FR
IGOL FRANCE, AMIENS/FR
INA MAZIVA LTD., ZAGREB/HR
KUWAIT PETROLEUM (BELGIUM) N.V., ANTWERP/BE
LAEMMLE CHEMICALS AG, MADETSWIL/CH
LIEBHERR HYDRAULIKBAGGER GMBH, KIRCHDORF/DE
LIQUI MOLY GMBH, ULM/DE
LUKOIL LUBRICANTS EUROPE GMBH, VIENNA/AT
LUKOIL LUBRICANTS EUROPE GMBH, VIENNA/AT
MEGUIN GMBH & CO. KG, SAARLOUIS/DE
MOEVE COMMERCIAL S.A.U., MADRID/ES
MOEVE COMMERCIAL S.A.U., MADRID/ES
MOL-LUB KFT, ALMASFUZITO/HU
MOTOREX AG, LANGENTHAL/CH
MOTOREX AG, LANGENTHAL/CH
MOTOREX AG, LANGENTHAL/CH
MOTUL SA, AUBERVILLIERS/FR
OEL-BRACK AG, HUNZENSCHWIL/CH
OEST LUBRICANTS GMBH & CO.KG, FREUDENSTADT/DE
PAKELO MOTOR OIL S.P.A. A S.U., SAN BONIFACIO (VR)/IT
PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA
PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA
PETROGAL S.A., LISBOA/PT
PETROL OFISI A.S., ISTANBUL/TR
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
PHI OIL GMBH, ST. GEORGEN/AT
PHI OIL GMBH, ST. GEORGEN/AT
RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/DE
RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/DE
REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
ROLF LUBRICANTS GMBH, LEVERKUSEN/DE
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
SINOPEC LUBRICANT CO., LTD., BEIJING/CN
SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
VALVOLINE EUROPE, DORDRECHT/NL
WILHELM HOYER B.V. & CO. KG, VISSELHÖVEDE/DE
WOLF OIL CORPORATION N.V., HEMIKSEM/BE
YACCO SAS, ST PIERRE LES ELBEUF/FR

产品名称 (12N)

ADDINOL GETRIEBEÖL GH 75 W 90 SL
AVIA POWERTRAIN SUPREME GAX 75W-90
EMGARD HP 75W-90
BELGIN LUBEX MITRAS AX SYN ULTRA 75W-90
EVOLCA SGP 75W90
CASTROL TRANSMAX UNIVERSAL LL 75W-90
CHAMPION OEM SPECIFIC 75W90 GL 5
DELO SYN-TDL 75W-90
GEAR TXS 75W90
TOR UNI GEAR LD 75W90
AVENO TDL ULTIMATE 75W-90
MULTIHIPO 75W-90 SINT
ENI ROTRA LSX 75W-90
ENI ROTRA MP 75W-90
MOBILUBE 1 SHC 75W-90
MOBIL DELVAC 1 GEAR OIL 75W-90
MOBIL DELVAC ULTRA TOTAL DRIVELINE 75W-90
AVIATICON FINKOGEAR PREMIUM 75W-90
FUCHS TITAN CYTRAC HSY SAE 75W-90
GEARWAY S5 75W-90
FUCHS TITAN CYTRAC TD SAE 75W-90
PENTOSIN GEAR PRO SAE 75W-90
PENTOSIN GEAR ULTRA SAE 75W-90
FUCHS TITAN CYTRAC RR SAE 75W-90
GULF SYNGEAR 75W-90
LONGEVIA TCX ECO 75W-90
SYNTHEGEAR 75W-90
INA HIPENOL SHD 75W-90
Q8 TRANS XGS 75W-90
ROXOR SUPER DUTY SYNTH 75W-90
LIEBHERR SYNTOGear PLUS 75W-90
LIQUI MOLY VOLLSYN. HYPOID GETR.ÖL TRUCK (75W-90)
LUKOIL TRANSMISSION SYNTH BSX 75W-90
LUKOIL TRANSMISSION MN 75W-90
MEGOL GETRIEBEOEL TRUCK-SYNTH SAE 75W-90
CEPSA TRANSMISIONES EP FE+LD 75W-90
MAN SUPER AXLE 3343 75W-90
MOL HYKOMOL TDL 75W90
YORK 896 75W90
MOTOREX YORK UNISYNT ZX SAE 75W90
MOTOREX YORK PENTA TL SAE 75W/90
MOTUL GEAR SYNTH TDL 75W-90
MIDLAND SENSOGear 75W-90
OEST SYNTH GETRIEBEÖL SAE 75W-90
GLOBAL MULTIGEAR TS SAE 75W/90
TRAXON SYNTHETIC 75W-90
TRAXON SYNTHETIC 75W-90
GALP TRANSVEX TDL 75W90
MAXIGEAR D 75W-90
TUTELA TRANSMISSION FE-AXLE (SAE 75W-90)
TUTELA TRANSMISSION STARGEAR AX-ED (SAE 75W-90)
PETRONAS TUTELA AXLE 700 EHD 75W-90
UNIGEAR GOLD 75W90
UNIGEAR GOLD 75W90
RAVENOL GEAR SUPER SYNTH GSS SAE 75W-90
RAVENOL GEAR TRANS SYNTH GTS SAE 75W-90
REPSOL CARTAGO FE LD 75W90
REPSOL NAVIGATOR FE LL 75W-90
ROLF TRANSMISSION S9 AGE 75W-90
SHELL SPIRAX S6 ADME 75W- 90
SHELL SPIRAX S6 AXME 75W-90
SINOPEC GREATWALL VT 75W/90
SRS GETRIEBEFLUID SXL 75W-90
TRAXIUM DUAL 9 FE 75W-90
TRANSELF SYN FE 75W-90
VALVOLINE HEAVY DUTY TDL PRO 75W-90
HOYER GEAR F-FP 75W-90
WOLF OFFICIALTECH 75W90 GL 5
BVX 1000 75W-90

ZF 认可编号

ZF002260
ZF012039
ZF001716
ZF005978
ZF004734
ZF002144
ZF003554
ZF003353
ZF000829
ZF000964
ZF010792
ZF000653
ZF000860
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ZF001681
ZF003699
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ZF000642
ZF001030
ZF003341
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ZF004931
ZF000732
ZF000863
ZF008392
ZF008361
ZF000977
ZF000179
ZF009457
ZF006012
ZF001347
ZF010972
ZF012099
ZF001291
ZF000086
ZF000965
ZF003365
ZF000550
ZF008207
ZF006007
ZF000825
ZF003680
ZF000491
ZF001224
ZF002212
ZF011913
ZF000980
ZF001591
ZF001199
ZF001738
ZF003639
ZF001203
ZF003606
ZF006037
ZF006038
ZF000451
ZF008268
ZF003626
ZF003334
ZF001262
ZF000527
ZF001655
ZF006074
ZF008393
ZF001283
ZF011993
ZF003525
ZF009462

润滑油等级 12P

符合规格/要求的润滑脂:

- DIN 51502 分级 最低 GP 0/00/000 G -30
- ISO 6743-9 分级 最低 ISO-L-X C C E/F/H/I B 0/00/000
- 稠度等级: NLGI 0 / 00 / 000
- 基础油: API 1 / 2 / 3 / 4 类
- 增稠剂类型: Li / Ca
- EP 添加剂
- 集中润滑装置制造商必须批准允许用于所用设备。

提示:

- 所有符合上述规格/要求的商品均可以使用。
- 设备或车辆运营单位应确保润滑点有定期可靠的润滑剂供给。
- 系统或车辆运营单位应确保润滑点不会出现润滑脂供应不足的情况(通过设备自动发出的报错, 并定期进行目视检查)。
- 必须遵守设备制造商关于漏脂检查和更换周期的规定。

润滑油等级 12S

变速箱油

粘度等级:SAE 75W-110, 75W-140, 80W-110, 80W-140, 85W-110, 85W-140

制造商 (12S)

ADDINOL LUBE OIL GMBH, LEUNA/DE
BAPCO REFINING, AWAL/BH
CASTROL LTD, LONDON/GB
CHEVRON LUBRICANTS, SAN RAMON, CA/US
CHEVRON LUBRICANTS, SAN RAMON, CA/US
CHEVRON LUBRICANTS, SAN RAMON, CA/US
ELLIS ENTERPRISES EAST D.O.O. KRUSEVAC, KRUŠEVAC/RS
ENILIVE S.P.A., ROME/IT
EXXONMOBIL CORPORATION, HOUSTON, TX/US
EXXONMOBIL CORPORATION, HOUSTON, TX/US
EXXONMOBIL CORPORATION, HOUSTON, TX/US
EXXONMOBIL CORPORATION, HOUSTON, TX/US
FUCHS PETROLUB SE, MANNHEIM/DE
FUCHS PETROLUB SE, MANNHEIM/DE
FUCHS PETROLUB SE, MANNHEIM/DE
FUCHS PETROLUB SE, MANNHEIM/DE
INGRAX INDUSTRIA E COMERCIO DE GRAXA S/A, DUQUE DE CAXIAS/BR
KUWAIT PETROLEUM (BELGIUM) N.V., ANTWERP/BE
KUWAIT PETROLEUM (BELGIUM) N.V., ANTWERP/BE
KUWAIT PETROLEUM (BELGIUM) N.V., ANTWERP/BE
LAEMMLE CHEMICALS AG, MADETSWIL/CH
MOEVE COMMERCIAL S.A.U., MADRID/ES
MOTOREX AG, LANGENTHAL/CH
PAKELO MOTOR OIL S.P.A. A S.U., SAN BONIFACIO (VR)/IT
PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA
PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA
PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA
PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA
PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA
PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA
PETROGAL S.A., LISBOA/PT
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/DE
REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB
SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
SWD LUBRICANTS GMBH & CO.KG, DUISBURG/DE
TEXSA DO BRASIL LTDA, UMUARAMA/PR/BR
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
VALVOLINE EUROPE, DORDRECHT/NL

产品名称 (12S)

ADDINOL GETRIEBEÖL GH 85 W 140
SPAREX EP 85W-140 GL-5
CASTROL AXLE EPX 85W-140
DELO SYN-GEAR XS 75W-140
DELO GEAR EP-5 SAE 85W-140
MULTIGEAR PREMIUM EP SAE 85W-140
MULTIHIPO 80W-140 F PLUS
ENI ROTRA MP 85W-140
MOBIL DELVAC 1 GEAR OIL 80W-140
MOBIL DELVAC MODERN AXLE OIL 85W-140 V1
MOBIL DELVAC MODERN AXLE OIL 85W-140 V1
MOBIL DELVAC MODERN AXLE OIL 85W-140 V1
TITAN SUPERGEAR MC SAE 80W-140
FUCHS TITAN SUPERGEAR SAE 85W-110
FUCHS TITAN SUPERGEAR SAE 85W-140
PENTOSIN GEAR SAE 85W-140
MULTIGEROL 85W140
Q8 TRANS XGR 75W-140
Q8 AXLE OIL XG SAE 80W-140
Q8 SYNTHETIC GEAR OIL SAE 80W-140
ROXOR SUPER DUTY SYNTH 75W-140
CEPSA TRANSMISIONES EP 85W-140
MOTOREX YORK GEAR ZX TP SAE 80W/140
GLOBAL GEAR SA SAE 85W-140
TRAXON 85W-140
TRAXON 85W-140
TRAXON 85W-140
TRAXON XL SYNTHETIC BLEND 80W-140
TRAXON XL SYNTHETIC BLEND 80W-140
GALP TRANSVEX TDL 85W140
PETRONAS TUTELA AXLE 700 EHD 75W-140
TUTELA TRANSMISSION X-ROAD (75W-140)
AKCELA GEAR 135H EP (SAE 85W-140)
AKCELA GEAR 135H EP (SAE 85W-140)
AMBRA HYPOIDE 140 (SAE 85W-140)
AMBRA HYPOIDE 140 (SAE 85W-140)
ARBOR TRW 140 (SAE 85W-140)
ARBOR TRW 140 (SAE 85W-140)
PETRONAS TUTELA AXLE 300 85W-140
PETRONAS TUTELA AXLE 300 85W-140
RAVENOL TDG SAE 75W-110
REPSOL CARTAGO LD 85W140
REPSOL NAVIGATOR LL 85W-140
SHELL SPIRAX S6 AXME 75W-140
SHELL SPIRAX S 75W-140
SHELL SPIRAX S3 AX 85W-140
SHELL SPIRAX S3 AX 85W-140
SHELL SPIRAX S3 AX 85W-140
SHELL SPIRAX S3 AX 85W-140
SHELL SPIRAX S3 AX 85W-140
SHELL SPIRAX S3 AX 85W-140
SHELL SPIRAX S3 AS 80W-140
SRS WIOLIN HL 5 85W-140
SWD RHEINOL SYNKROL 5 - SAE 85W140
TEXSA GEAR MULTI GL-5 85W140
TRAXIUM AXLE 8 FE 80W-140
DYNATRANS HD 85W-140
TRANSELF TYPE B 85W-140
TRAXIUM AXLE 7 85W-140
VALVOLINE HEAVY DUTY AXLE OIL PRO 75W-140

ZF 认可编号

ZF003561
ZF002318
ZF000910
ZF002274
ZF002254
ZF001196
ZF001749
ZF000856
ZF001682
ZF008309
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ZF008310
ZF006028
ZF004921
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