



Industrial Technology

## Ripartitore di coppia e rinvio angolare per veicoli industriali

## Tabella dei lubrificanti TE-ML 19

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### 1. Classi di lubrificanti benestariati

Gruppi di prodotto	Lubrificanti ammessi per riempimento servizio <sup>(1)</sup>	
	Impiego normale <sup>(2)</sup>	Impiego impegnativo <sup>(3)</sup>
VG750, VG754 VG1200, VG1600/300, VG1600/396 VG2000/300, VG2000/396, VG2010, VG2700 VG3800	19A / 19B / 19C / 19D	19B / 19C / 19D
DR500, DR1600, DR1610, DR1620	19A / 19B / 19C / 19D	19B / 19C / 19D
TC 27	19A / 19B / 19C / 19D	19B / 19C / 19D
TC 27 + PTO	19C <sup>(6)</sup> / 19D <sup>(6)</sup>	19C <sup>(6)</sup> / 19D <sup>(6)</sup>





### 2. Controllo del livello dell'olio ed intervalli di sostituzione dell'olio

	Impiego normale <sup>(2)</sup>	Impiego impegnativo <sup>(3)</sup>
Controllo del livello dell'olio	10.000 km	10.000 km
Cambio dell'olio e pulizia dello sfianto	60.000 km / 1 anno <sup>(4)</sup>	20.000 km / 1 anno <sup>(4)</sup>

La tabella dei lubrificanti TE-ML 19, **edizione 01.04.2026** sostituisce tutte le edizioni precedenti. La rispettiva tabella dei lubrificanti aggiornata può essere richiesta ad ogni punto di appoggio e servizio assistenza ZF oppure consultata sul sito Internet [www.aftermarket.zf.com/lubricants](http://www.aftermarket.zf.com/lubricants).

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### 3. Limite inferiore d'utilizzo a basse temperature

Classi di viscosità	Utilizzo con temperatura esterna <sup>(7)</sup>
SAE 75W-85, 75W-90	- 40°C 
SAE 80W-90	- 26°C 
SAE 85W-90	- 12°C 
SAE 90	- 5°C 

### 4. Limiti di temperatura superiori

Classe dei lubrificanti	Temperatura nella coppa dell'olio max. ammissibile per impieghi continuativi <sup>(5)</sup>
19A, 19B	110 °C
19C, 19D	120 °C

### 5. Spiegazione di note a piè di pagina ed osservazioni

#### Note a piè di pagina

- (1) Per i prodotti commerciali ammessi vedi seguenti pagine.
- (2) Impiego normale: uso misto su strada e fuori strada.
- (3) Condizioni d'impiego impegnative: essenzialmente fuori strada (resistenza all'avanzamento elevata, carichi alti, velocità bassa) nonché applicazioni speciali (ad esempio veicoli per trasporto pesante, autogrù, veicoli antincendio, ...).
- (4) Sostituzione dell'olio necessario in base a ciò che si verifica prima.
- (5) In caso di superamento continuo della temperatura nella coppa dell'olio max. ammissibile bisogna prevedere un sistema di raffreddamento supplementare.
- (6) Nell'impiego della PTO TC 27 per i lubrificanti ammessi valgono i seguenti limiti di temperatura e condizioni di marcia a caldo:

Limite inferiore d'utilizzo a basse temperature	Classe dei lubrificanti	Riscaldamento prima dell'impiego della PTO
+...°C e -10°C	19C, 19D	-
-11°C e -20°C	19C, 19D	5 minuti in folle con 500 giri/min
-21°C e -30°C	19D	5 minuti in folle con 500 giri/min
-31°C e -40°C	19D	10 minuti in folle con 500 giri/min

- (7) Per l'impiego a temperature esterne inferiori a -40 ° C sono necessarie misure particolari o lubrificanti speciali in accordo con ZF.

#### Osservazioni

Additivi di qualsiasi tipo che vengono aggiunti all'olio **posteriormente** fanno modificare l'olio in un modo da non prevedere e per questo non sono ammissibili. ZF non assume alcuna responsabilità di tutti i danni derivanti dall'uso di tali additivi.

## 6. Classi di lubrificanti e prodotti commerciali benestariati

### Classe dei lubrificanti 19A

Olio per cambi

Classi di viscosità: SAE 80W-90 / 85W-90 / 90

#### Produttore (19A)

ADDINOL LUBE OIL GMBH, LEUNA/DE  
 AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE  
 AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE  
 CHEVRON LUBRICANTS, SAN RAMON, CA/US  
 DE OLIEBRON BV, ZWIJNDRECHT/NL  
 GULF OIL INTERNATIONAL, MUMBAI/IN  
 GULF OIL INTERNATIONAL, MUMBAI/IN  
 GULF OIL INTERNATIONAL, MUMBAI/IN  
 GULF OIL INTERNATIONAL, MUMBAI/IN  
 GULF OIL INTERNATIONAL, MUMBAI/IN  
 GULF OIL INTERNATIONAL, MUMBAI/IN  
 KUWAIT PETROLEUM (BELGIUM) N.V., ANTWERP/BE  
 LIQUI MOLY GMBH, ULM/DE  
 MEGUIN GMBH & CO. KG, SAARLOUIS/DE  
 MOEVE COMMERCIAL S.A.U., MADRID/ES  
 OILFINO MINERALÖL GMBH, PRISDORF/DE  
 ORLEN OIL SP. Z O.O., KRAKOW/PL  
 PETROGAL S.A., LISBOA/PT  
 RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/DE  
 SK ENMOVE CO.,LTD., SEOUL/KR  
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE  
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE  
 TOTALENERGIES LUBRIFIANTS, NANTERRE/FR  
 TOTALENERGIES LUBRIFIANTS, NANTERRE/FR  
 TOTALENERGIES LUBRIFIANTS, NANTERRE/FR  
 TOTALENERGIES LUBRIFIANTS, NANTERRE/FR  
 TOTALENERGIES LUBRIFIANTS, NANTERRE/FR  
 TOTALENERGIES LUBRIFIANTS, NANTERRE/FR  
 VIBRA ENERGIA S.A., DUQUE DE CAXIAS/BR  
 VIBRA ENERGIA S.A., DUQUE DE CAXIAS/BR

#### Denominazione prodotto (19A)

ADDINOL GETRIEBEÖL GS 80W-90  
 AVISTA PEER EVO GL4 SAE 80W-90  
 AVISTA PEER EVO GL4 SAE 85W-90  
 TRANSLUBE LD SAE 90  
 TOR MULTIPURPOSE GEAR OIL SAE 80W90  
 GULF GEAR XP 90  
 GULF GEAR XP MAX 90  
 GULF GEAR XP DURA MAX 80W-90  
 GULF GEAR MZ 90  
 GULF GEAR MZ 85W-90  
 GULF GEAR XP 80W-90  
 GULF GEAR MZ 80W-90  
 Q8 T 35 SAE 80W-90  
 LIQUI MOLY GETRIEBEÖL GL4 SAE 85W-90  
 MEGOL MEHRZWECKGETRIEBEOEL GL 4 SAE 85W-90  
 CEPISA TRANSMISIONES 80W-90  
 OILFINO VARIUS G 300 SAE 80W-90  
 ORLEN OIL GEAR GL-4 80W-90  
 GALP TRANSOIL 80W90  
 RAVENOL GETRIEBEÖL MZG SAE 80W-90 GL-4  
 SK GEAR EP 80W-90 ZF  
 SRS WIOLIN MEHRZWECK-GETRIEBEÖL 80W-90  
 SRS WIOLIN MEHRZWECK-GETRIEBEÖL 90  
 TRAXIUM GEAR 7 80W-90  
 TRAXIUM GEAR 7 80W-90  
 TRAXIUM GEAR 7 85W-90  
 TRAXIUM GEAR 7 85W-90  
 TRANSELF EP 80W-90  
 TRANSELF EP 80W-90  
 LUBRAX TRM 4 SAE 90  
 LUBRAX TRM 4 SAE 90

#### Numero di approvazione ZF

ZF000701  
 ZF004779  
 ZF004792  
 ZF000801  
 ZF000622  
 ZF000428  
 ZF000471  
 ZF000684  
 ZF000874  
 ZF000875  
 ZF000893  
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 ZF001999  
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 ZF011320  
 ZF000768  
 ZF001109  
 ZF000715  
 ZF000440  
 ZF000445  
 ZF006084  
 ZF006085  
 ZF008222  
 ZF008223  
 ZF008381  
 ZF008382  
 ZF001477  
 ZF006103

**Classe dei lubrificanti 19B**

olio per cambi

Classi di viscosità: SAE 80W-90 / 85W-90 / 90

**Produttore (19B)**

ADDINOL LUBE OIL GMBH, LEUNA/DE  
ADDINOL LUBE OIL GMBH, LEUNA/DE  
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  
AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE  
AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE  
BAPCO REFINING, AWALI/BH  
BAPCO REFINING, AWALI/BH  
BAPCO REFINING, AWALI/BH  
BAYWA AG MÜNCHEN, MÜNCHEN/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  
BELGIN MADENI YAGLAR TIC. VE SAN. A.S., KOCAELI/TR  
BLASER SWISSLUBE AG, HASLE-RÜEGSAU/CH  
CASTROL LTD, LONDON/GB  
CASTROL LTD, LONDON/GB  
CASTROL LTD, LONDON/GB  
CASTROL LTD, LONDON/GB  
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  
CHEVRON LUBRICANTS, SAN RAMON, CA/US  
CHEVRON LUBRICANTS, SAN RAMON, CA/US  
CHEVRON LUBRICANTS, SAN RAMON, CA/US  
CLASS KGAA MBH, HARSEWINKEL/DE  
CLASS KGAA MBH, HARSEWINKEL/DE  
CYCLON HELLAS SA, ATHENS/GR  
DE OLIEBRON BV, ZWIJNDRECHT/NL  
EKO ABEE, ATHENS/GR  
ELLIS ENTERPRISES EAST D.O.O. KRUSEVAC, KRUŠEVAC/RS  
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  
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 VISSLHÖVEDE/DE  
FINKE MINERALÖLWERK GMBH, 27374 VISSLHÖVEDE/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  
FUCHS PETROLUB SE, MANNHEIM/DE  
FUCHS PETROLUB SE, MANNHEIM/DE  
GS CALTEX CORPORATION, SEOUL/KR  
GULF OIL INTERNATIONAL, MUMBAI/IN  
GULF OIL INTERNATIONAL, MUMBAI/IN  
GULF OIL INTERNATIONAL, MUMBAI/IN  
GULF OIL INTERNATIONAL, MUMBAI/IN  
GULF OIL INTERNATIONAL, MUMBAI/IN  
GULF OIL INTERNATIONAL, MUMBAI/IN  
HILL CORPORATION, SHYMKENT/KZ  
HUILES BERLIET S.A., SAINT-PRIEST/FR  
HUILES BERLIET S.A., SAINT-PRIEST/FR  
INA MAZIVA LTD., ZAGREB/HR  
INA MAZIVA LTD., ZAGREB/HR  
INA MAZIVA LTD., ZAGREB/HR  
KUWAIT PETROLEUM (BELGIUM) N.V., ANTWERP/BE  
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  
LIEBHERR HYDRAULIKBAGGER GMBH, KIRCHDORF/DE  
LIQUI MOLY GMBH, ULM/DE  
LIQUI MOLY GMBH, ULM/DE

**Denominazione prodotto (19B)**

ADDINOL GETRIEBEÖL GH 85W-90  
ADDINOL GETRIEBEÖL GH 80W-90  
ADDINOL GETRIEBEÖL GX 80W-90 ML  
ADDINOL GETRIEBEÖL GX 80 W 90  
AVIA POWERTRAIN AX 85W-90  
AVIA POWERTRAIN GAX 80W-90  
AVIA POWERTRAIN PREMIUM AX 80W-90  
AVISTA PEER EVO GL5 SAE 80W-90  
AVISTA PEER EVO GL4/GL5 SAE 80W-90  
AVISTA PEER EVO GL5 SAE 85W-90  
AVISTA PEER EVO PRIME GL4/GL5 SAE 80W-90  
SPAREX EP 90 GL-5  
SPAREX EP 90 GL-5  
SPAREX EP 80W-90 GL-5  
TECTROL MULTIGEAR HYP 90  
TECTROL MULTIGEAR PLUS 8090  
BELGIN LUBEX MITRAS AX EP MD 80W-90  
BELGIN LUBEX MITRAS AX EP PLUS 80W-90  
BELGIN LUBEX MITRAS AX EP EXTRA 80W-90  
EVOLCA BGP 80W90  
CASTROL AXLE EPX 80W-90  
CASTROL AXLE EPX 80W-90  
CASTROL TRANSMAX UNIVERSAL LL 80W-90  
CASTROL TRANSMAX AXLE EPX 80W-90  
CASTROL TRANSMAX AXLE EPX 85W-90  
CASTROL TRANSMAX AXLE LONG DRAIN 80W-90  
HYPOID LD SAE 85W-90  
MULTIGEAR EP SAE 90  
MULTIGEAR EP-5 SAE 80W-90  
DELO GEAR TDL 80W-90  
DELO GEAR EP-5 SAE 80W-90  
GEARTEX EP-5 80W-90  
AGRISHIFT MT 80W-90  
AGRISHIFT MT 80W-90  
GEAR EP GL-5 80W-90  
TOR SUPER GEAR OIL 80W90  
EKO GEAROL-5 80W-90  
MULTIHIPO PLUS 80W-90  
MULTIHIPO 80W-90 F PLUS  
ENI ROTRA MP 80W-90  
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 HDA  
MOBILUBE HD-A 85W-90  
MOBIL DELVAC MODERN AXLE OIL 80W-90  
MOBIL DELVAC MODERN AXLE OIL 85W-90 V1  
MOBILUBE S 80W-90  
MOBILUBE HD-A 85W-90  
MOBIL DELVAC MODERN AXLE OIL 85W-90 V1  
AVIATICON FINKOGEAR SUPER 80W-90  
AVIATICON HYPOID EP 80W-90  
FUCHS TITAN GEAR HYP LD SAE 80W-90  
FUCHS TITAN SUPERGEAR SAE 80W-90  
FUCHS TITAN GEAR HYP SAE 90  
FUCHS TITAN SUPERGEAR MC SAE 80W-90  
GEARWAY G5 80W-90  
PENTOSIN GETRIEBEÖL O-226 80W-90  
PENTOSIN G5 85W-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  
GULF GEAR TDL 80W-90  
GULF GEAR DB 80W-90  
GULF GEAR DB 90  
GULF GEAR DB 85W-90  
GULF GEAR HD 85W-90  
GULF GEAR LD 80W-90  
FASTROIL MTF5 80W-90  
LONGEVIA TC ECO 80W-90  
LONGEVIA HD 80W-90  
INA HIPENOL GTL DB 90  
INA HIPENOL GTL HD 80W-90  
INA HIPENOL TDL 80W-90  
Q8 GEAR OIL XG SAE 80W-90  
Q8 T 55 SAE 80W-90  
Q8 T 55 SAE 90  
Q8 T 55 SAE 80W-90  
ROXOR TOPGEAR 80W-90  
LIEBHERR GEAR HYPOID 90 EP  
LIQUI MOLY HYPOID-GETRIEBEÖL GL5 SAE 85W-90  
LIQUI MOLY HYPOID GETRIEBEÖL TDL SAE 80W-90

**Numero di approvazione ZF**

ZF000555  
ZF000671  
ZF000672  
ZF003620  
ZF012196  
ZF012197  
ZF012198  
ZF004777  
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ZF000887  
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ZF001950  
ZF003435  
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ZF008396  
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ZF000417  
ZF000432  
ZF002103  
ZF002110  
ZF002112  
ZF003681  
ZF010966  
ZF004912  
ZF000695  
ZF001323

**Numero di  
approvazione ZF**

LIQUI MOLY HYPOID-GETRIEBEÖL GL5 SAE 80W-90  
LUKOIL TRANSMISSION LD 80W-90  
LUKOIL TRANSMISSION B 85W-90  
LUKOIL TRANSMISSION UNI 80W-90  
MEGOL HYPOID-GETRIEBEÖL GL 5 SAE 85W-90  
MEGOL HYPOID-GETRIEBEÖL TDL 80W-90  
MEGOL HYPOID-GETRIEBEÖL GL 5 SAE 80W-90  
CEPSA TRANSMISIONES EP 80W-90  
CEPSA TRANSMISIONES EP 90  
MAN SUPER AXLE 342-M2  
MOL HYKOMOL K 85W90  
MOL HYKOMOL ZF 80W90  
YORK 793 SAE 80W90  
MOTOREX\_YORK UNIVERSAL CT SAE 80W/90  
MOTOREX YORK UNIVERSAL SAE 80W90  
MOTOREX YORK GEAR ZX TP SAE 80W/90  
OEST GETRIEBEÖL FE SAE 80W-90 GL4/5  
OEST MEHRZWECK-GETRIEBEÖL SPEZIAL SAE 85W-90  
OILFINO VARIUS G 500 80W-90  
OTOKAR SPECTRA DO Z 80W-90  
PLATINUM GEAR GL-5 80W-90  
ORLEN OIL GEAR GL-5 80W-90  
ORLEN OIL GEAR LL 80W-90  
LOTOS TITANIS GL-5 80W-90  
TITANIS SUPER GL-5 80W-90  
LOTOS TITANIS GL-5 80W-90  
TRAXON 80W-90  
TRAXON 80W-90  
TRAXON 80W-90  
GALP TRANSOIL HP 80W90  
GALP TRANSOIL HP XT 80W90  
MAXIGEAR EP-X 80W-90  
MAXIGEAR TECH 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)  
TUTELA TRANSMISSION W90/M-DA (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)  
TUTELA TRANSMISSION W 90/M-DA (SAE 80W-90)  
PETRONAS TUTELA AXLE 300 80W-90  
PETRONAS TUTELA AXLE 300 80W-90  
PRISTA EP 90  
PRISTA EP 80W-90  
RAVENOL HYPOID EPX GETR.-OEL 80W-90 GL5  
RAVENOL SLG SAE 80W-90  
REPSOL CARTAGO EP SAE 90  
REPSOL CARTAGO EP MULTIGRADO SAE 80W90  
REPSOL CARTAGO LD 80W90  
REPSOL NAVIGATOR LL 80W-90  
REPSOL NAVIGATOR HQ GL-5 80W-90  
REPSOL NAVIGATOR HQ GL-5 SAE 90  
ROLF TRANSMISSION M5 A 80W-90  
TRANSMISSION 80W-90 GL5  
SHELL SPIRAX S3 AX 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)  
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  
SHELL SPIRAX MB 90  
GEARLUBE HG M2 SAE 80W-90  
SINOPEC GREATWALL MULTIPURPOSE GEAR OIL 80W-90  
SINOPEC MULTIPURPOSE-II GEAR OIL 80W-90  
SRS WOLIIN HYPOID-GETRIEBEÖL 80W-90  
SRS WOLIIN HYPOID-GETRIEBEÖL 90  
SRS GETRIEBEFLUID SML 80W-90  
SRS WOLIIN HL 5 SAE 80W-90  
SRS WOLIIN HL 5 SAE 85W-90  
SRS WOLIIN HGAV 80W-90  
TEDEX SUPER GEAR OIL (TDL) SAE 80W-90  
TEXSA GEAR MULTI GL-5 90  
TEXSA GEAR MULTI GL-5 80W90  
MONTANA DYNAMIC TRACTOGEAR 5 80W90

ZF002053  
ZF010982  
ZF010981  
ZF012150  
ZF000069  
ZF001183  
ZF001998  
ZF000084  
ZF000097  
ZF000966  
ZF001113  
ZF001118  
ZF001129  
ZF006108  
ZF006027  
ZF006006  
ZF000565  
ZF000566  
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ZF011188  
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ZF001098  
ZF005949  
ZF000764  
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ZF000380  
ZF001110  
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ZF000679  
ZF000323  
ZF001141  
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ZF008273  
ZF003629  
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ZF008191  
ZF008187  
ZF010960  
ZF010963  
ZF010962  
ZF010959  
ZF010961  
ZF008356  
ZF005976  
ZF002267  
ZF003332  
ZF000441  
ZF000444  
ZF000447  
ZF001911  
ZF001912  
ZF010330  
ZF001342  
ZF001941  
ZF001942  
ZF003668

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**Classe dei lubrificanti 19C**

Olio per cambi

Classe di viscosità: SAE 75W-90

**Produttore (19C)**

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  
CASTROL LTD, LONDON/GB  
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 VISSSELHÖVEDE/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, VISSSELHÖVEDE/DE  
WOLF OIL CORPORATION N.V., HEMIKSEM/BE  
YACCO SAS, ST PIERRE LES ELBEUF/FR

**Denominazione prodotto (19C)**

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 AXLE LONG LIFE 75W-90  
CASTROL TRANSMAX UNIVERSAL LL 75W-90  
CASTROL SAF-XO 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  
FUCHS TITAN CYTRAC RR 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  
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  
MOTOREX YORK PENTA TL SAE 75W/90  
MOTOREX YORK UNISYNT ZX SAE 75W90  
YORK 896 75W90  
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 AXME 75W-90  
SHELL SPIRAX S6 ADME 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

**Numero di  
approvazione ZF**

ZF002260  
ZF012039  
ZF001716  
ZF005978  
ZF004734  
ZF002142  
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ZF000642  
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ZF000863  
ZF008392  
ZF008361  
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ZF012099  
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ZF006007  
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ZF008393  
ZF001283  
ZF011993  
ZF003525  
ZF009462

**Classe dei lubrificanti 19D**  
Olio per cambi  
Classe di viscosità: SAE 75W-85

Produttore (19D)	Denominazione prodotto (19D)	Numero di approvazione ZF
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE	SHELL SPIRAX S6 AZME 75W-85 ZF ECOFLUID XL SAE 75W-85	ZF004894 ZF003441