



Industrial Technology

## Ripartitore di coppia e rinvio angolare per veicoli industriali

## Tabella dei lubrificanti TE-ML 19

Indice	Pagina
<a href="#">1. Classi di lubrificanti benestariati</a> .....	1
<a href="#">2. Controllo del livello dell'olio ed intervalli di sostituzione dell'olio</a> .....	1
<a href="#">3. Limite inferiore d'utilizzo a basse temperature</a> .....	2
<a href="#">4. Limiti di temperatura superiori</a> .....	2
<a href="#">5. Spiegazione di note a piè di pagina ed osservazioni</a> .....	2
<a href="#">6. Classi di lubrificanti e prodotti commerciali benestariati</a> .....	3

### 1. Classi di lubrificanti benestariati

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





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

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

La tabella dei lubrificanti TE-ML 19, edizione 01.01.2021 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).

**ZF Friedrichshafen AG**  
D-88038 Friedrichshafen  
[www.zf.com/contact](http://www.zf.com/contact)

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

Classi di viscosità	Utilizzo con temperatura esterna
SAE 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	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.

#### 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  
 AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE  
 BAHRAIN PETROLEUM COMPANY, AWALI/BH  
 CEPESA COMERCIAL PETRÓLEO S.A.U., MADRID/ES  
 CHEVRON LUBRICANTS, SAN RAMON, CA/US  
 CHEVRON LUBRICANTS, SAN RAMON, CA/US  
 DE OLIEBRON BV, ZWIJNDRECHT/NL  
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU  
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU  
 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  
 GULF OIL INTERNATIONAL, MUMBAI/IN  
 HINDUSTAN PETROLEUM CORPORATION LTD., MUMBAI/IN  
 INDIAN OIL CORPORATION LTD, MUMBAI/IN  
 INDIAN OIL CORPORATION LTD, MUMBAI/IN  
 INDIAN OIL CORPORATION LTD, MUMBAI/IN  
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL  
 LIQUI MOLY GMBH, ULM/DE  
 MEGUIN GMBH & CO. KG, SAARLOUIS/DE  
 OILFINO MINERALÖL GMBH, PRISDORF/DE  
 OOO "LLK-INTERNATIONAL", MOSCOW/RU  
 ORLEN OIL SP. Z O.O., KRAKOW/PL  
 PETROBRAS DISTRIBUIDORA S.A., DUQUE DE CAXIAS/BR  
 PETROGAL S.A., LISBOA/PT  
 RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/DE  
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES  
 SK LUBRICANTS, SEOUL/KR  
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE  
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE  
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR  
 UNIL OPAL, SAUMUR/FR

#### Denominazione prodotto (19A)

ADDINOL GETRIEBEÖL GS 80W-90  
 PENNASOL MULTIPURPOSE GEAR OIL GL 4 SAE 90  
 AVISTA PEER EVO GL4 SAE 80W-90  
 AVISTA PEER EVO GL4 SAE 85W-90  
 SPAREX HP 90 GL-4  
 CEPESA TRANSMISIONES 80W-90  
 TRANSLUBE LD SAE 90  
 GEARTEX EP-4 80W-90  
 TOR MULTIPURPOSE GEAR OIL SAE 80W90  
 G-TRUCK GL-4 80W-90  
 GAZPROMNEFT GL-4 80W-90  
 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  
 HP GEAR OIL ZFL 80W 90  
 SERVO GEAR ALT 90  
 SERVO GEAR HP 80W-90 (T)  
 SERVO UNIDRIVE 80W-90  
 Q8 T 35 SAE 80W-90  
 LIQUI MOLY GETRIEBEÖL GL4 SAE 85W-90  
 MEGOL MEHRZWECKGETRIEBEOEL GL 4 SAE 85W-90  
 OILFINO VARIUS G 300 SAE 80W-90  
 LUKOIL TRANSMISSION MP 85W-90  
 PLATINUM GEAR GL-4 80W-90  
 LUBRAX TRM 4 SAE 90  
 GALP TRANSOIL 80W90  
 RAVENOL GETRIEBEÖL MZG SAE 80W-90 GL-4  
 REPSOL CARTAGO EPM 90  
 SK GEAR EP 80W-90 ZF  
 SRS WIOLIN MEHRZWECK-GETRIEBEÖL 80W-90  
 SRS WIOLIN MEHRZWECK-GETRIEBEÖL 90  
 ELF TRANSOLF EP 80W-90  
 GEAR EP 80W90

#### Numero di approvazione ZF

ZF000701  
 ZF000679  
 ZF004779  
 ZF004792  
 ZF001694  
 ZF000023  
 ZF000801  
 ZF002277  
 ZF000622  
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 ZF000500  
 ZF001477  
 ZF000768  
 ZF001109  
 ZF000633  
 ZF000715  
 ZF000440  
 ZF000445  
 ZF002068  
 ZF001051

**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  
 ARAL AG, BOCHUM/DE  
 ARAL AG, BOCHUM/DE  
 ARAL AG, BOCHUM/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  
 AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE  
 AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE  
 AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE  
 AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE  
 BAHRAIN PETROLEUM COMPANY, AWALI/BH  
 BAHRAIN PETROLEUM COMPANY, AWALI/BH  
 BAHRAIN PETROLEUM COMPANY, AWALI/BH  
 BAYWA AG MÜNCHEN, MÜNCHEN/DE  
 BAYWA AG MÜNCHEN, MÜNCHEN/DE  
 BLASER SWISSLUBE AG, HASLE-RÜEGSAU/CH  
 BP PLC., LONDON/GB  
 BP PLC., LONDON/GB  
 BP PLC., LONDON/GB  
 BP PLC., LONDON/GB  
 BUCHER AG LANGENTHAL, LANGENTHAL/CH  
 BUCHER AG LANGENTHAL, LANGENTHAL/CH  
 BUCHER AG LANGENTHAL, LANGENTHAL/CH  
 BUCHER AG LANGENTHAL, LANGENTHAL/CH  
 BUCHER AG LANGENTHAL, LANGENTHAL/CH  
 BUCHER AG LANGENTHAL, LANGENTHAL/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  
 CASTROL LTD, LONDON/GB  
 CASTROL LTD, LONDON/GB  
 CASTROL LTD, LONDON/GB  
 CASTROL LTD, LONDON/GB  
 CASTROL LTD, LONDON/GB  
 CEPSA COMERCIAL PETRÓLEO S.A.U., MADRID/ES  
 CEPSA COMERCIAL PETRÓLEO S.A.U., MADRID/ES  
 CEPSA COMERCIAL PETRÓLEO S.A.U., MADRID/ES  
 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  
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 CHEVRON LUBRICANTS, SAN RAMON, CA/US  
 CHEVRON LUBRICANTS, SAN RAMON, CA/US  
 CHEVRON LUBRICANTS, SAN RAMON, CA/US  
 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, KRUSEVAC/RS  
 ELLIS ENTERPRISES EAST D.O.O. KRUSEVAC, KRUSEVAC/RS  
 ENI S.P.A., ROME/IT  
 EXXONMOBIL CORPORATION, HOUSTON, TX/US  
 EXXONMOBIL CORPORATION, HOUSTON, TX/US  
 EXXONMOBIL CORPORATION, HOUSTON, TX/US  
 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  
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 FUCHS PETROLUB SE, MANNHEIM/DE  
 FUCHS PETROLUB SE, MANNHEIM/DE  
 FUCHS PETROLUB SE, MANNHEIM/DE  
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU  
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU  
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU  
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU  
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU  
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU  
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU  
 GEORG OEST MINERALÖLWERK GMBH & CO.KG, FREUDENSTADT/DE  
 GEORG OEST MINERALÖLWERK GMBH & CO.KG, FREUDENSTADT/DE  
 GRUPA LOTOS S.A., GDANSK/PL  
 GRUPA LOTOS S.A., GDANSK/PL  
 GRUPA LOTOS S.A., GDANSK/PL  
 GS CALTEX CORPORATION, SEOUL/KR  
 GULF OIL INTERNATIONAL, MUMBAI/IN

**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  
 ARAL GETRIEBEÖL SNA-D 80W-90  
 ARAL GETRIEBEÖL EP PLUS 80W-90  
 ARAL GETRIEBEÖL HYP 85W-90  
 PENNASOL HYPOID GEAR OIL GL 5 SAE 90  
 PENNASOL MULTIGRADE HYPOID GEAR OIL GL 5 SAE 80W90  
 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  
 EVOLCA BGP 80W90  
 BP ENERGEAR HT 80W-90  
 BP ENERGEAR HYPO XL 80W-90  
 BP ENERGEAR HYPO 90  
 BP ENERGEAR HYPO 80W-90  
 YORK 793 SAE 80W90  
 GEAR ZX TP SAE 80W/90  
 GEAR OIL HYPOID SAE80W/90  
 UNIVERSAL CT SAE 80W/90  
 MOTOREX UNIVERSAL SAE 80W90  
 YORK 1091 SAE 80W/90  
 CASTROL SYNTRAX UNIVERSAL 80W-90  
 CASTROL AXLE LONG DRAIN 80W-90  
 CASTROL AXLE EPX 90  
 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 AXLE EPX 80W-90  
 CASTROL TRANSMAX AXLE LONG DRAIN 80W-90  
 CEPSA TRANSMISIONES EP 80W-90  
 CEPSA TRANSMISIONES EP 90  
 MAN SUPER AXLE 342-M2  
 HYPOID LD SAE 85W-90  
 MULTIGEAR 80W-90  
 MULTIGEAR EP SAE 90  
 MULTIGEAR EP-5 SAE 80W-90  
 DELO GEAR EP-5 SAE 80W-90  
 DELO GEAR TDL 80W-90  
 GEARTEX EP-5 85W-90  
 GEARTEX EP-5 80W-90  
 DELO GEAR CGA SAE 80W-90  
 CLAAS 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 HD-A 85W-90  
 MOBILUBE S 80W-90  
 AVIATICON FINKOGEAR SUPER 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  
 G-TRUCK GL-4/GL-5 80W-90  
 G-TRUCK GL-5 80W-90  
 GAZPROMNEFT SUPER T-3 SAE 85W90  
 GAZPROMNEFT GL-5 80W-90  
 ROSTSELMASH G-PROFI GRIP GL-5 85W-90  
 WEGO GL-5 80W-90  
 OEST GETRIEBEÖL FE SAE 80W-90 GL4/5  
 OEST MEHRZWECK-GETRIEBEÖL SPEZIAL SAE 85W-90  
 LOTOS TITANIS GL-5 80W-90  
 TITANIS SUPER GL-5 80W-90  
 LOTOS TITANIS GL-5 80W-90  
 KIXX GEARTEC X GL-5 80W-90  
 GULF GEAR TDL 80W-90

**Numero di approvazione ZF**

ZF000555  
 ZF000671  
 ZF000672  
 ZF003620  
 ZF000135  
 ZF000460  
 ZF000464  
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 ZF001036  
 ZF001195  
 ZF001422  
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 ZF004809  
 ZF000554  
 ZF000556  
 ZF000946  
 ZF003509  
 ZF004803  
 ZF004842  
 ZF000565  
 ZF000566  
 ZF000923  
 ZF001098  
 ZF005949  
 ZF003553  
 ZF000780

**Produttore (19B)**

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  
 INA MAZIVA LTD., ZAGREB/HR  
 INA MAZIVA LTD., ZAGREB/HR  
 INA MAZIVA LTD., ZAGREB/HR  
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL  
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL  
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL  
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL  
 LIEBHERR HYDRAULIKBAGGER GMBH, KIRCHDORF/DE  
 LIQUI MOLY GMBH, ULM/DE  
 LIQUI MOLY GMBH, ULM/DE  
 LIQUI MOLY GMBH, ULM/DE  
 MEGUIN GMBH & CO. KG, SAARLOUIS/DE  
 MEGUIN GMBH & CO. KG, SAARLOUIS/DE  
 MEGUIN GMBH & CO. KG, SAARLOUIS/DE  
 MOL-LUB KFT, ALMASFUZITO/HU  
 MOL-LUB KFT, ALMASFUZITO/HU  
 MOOVE LUBRICANTS, GRAVESEND/GB  
 MORRIS LUBRICANTS, SHREWSBURY/GB  
 NILS SPA, BURGSTALL/IT  
 NIS AD, NOVI SAD/RS  
 NIS AD, NOVI SAD/RS  
 OILFINO MINERALÖL GMBH, PRISDORF/DE  
 OOO "LLK-INTERNATIONAL", MOSCOW/RU  
 OOO "LLK-INTERNATIONAL", MOSCOW/RU  
 OOO "LLK-INTERNATIONAL", MOSCOW/RU  
 OOO "LLK-INTERNATIONAL", MOSCOW/RU  
 OOO "LLK-INTERNATIONAL", MOSCOW/RU  
 OOO "LLK-INTERNATIONAL", MOSCOW/RU  
 OOO "LLK-INTERNATIONAL", MOSCOW/RU  
 OPET FUCHS MADENI YAG. SAN. VE TIC. A.S., IZMIR/TR  
 ORLEN OIL SP. Z O.O., KRAKOW/PL  
 ORLEN OIL SP. Z O.O., KRAKOW/PL  
 OY TEBOil AB, HELSINKI/FI  
 PANOLIN AG, MADETSWIL/CH  
 PANOLIN AG, MADETSWIL/CH  
 PANOLIN AG, MADETSWIL/CH  
 PAZ LUBRICANTS & CHEMICALS, HAIFA/IL  
 PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA  
 PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA  
 PETROBRAS DISTRIBUIDORA S.A., DUQUE DE CAXIAS/BR  
 PETROGAL S.A., LISBOA/PT  
 PETROGAL S.A., LISBOA/PT  
 PETROL OFISI A.S., ISTANBUL/TR  
 PETROL OFISI A.S., ISTANBUL/TR  
 PETROMIN LUBRICANTS, JEDDAH/SA  
 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  
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 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY  
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 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  
 PRISTA OIL HOLDING EAD, RUSE/BG  
 PRISTA OIL HOLDING EAD, RUSE/BG  
 QATAR LUBRICANTS COMPANY, DOHA/QA  
 RAVENBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/DE  
 RAVENBERGER 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  
 RN-LUBRICANTS, LLC, MOSCOW/RU  
 RN-LUBRICANTS, LLC, MOSCOW/RU  
 RN-LUBRICANTS, LLC, MOSCOW/RU  
 RN-LUBRICANTS, LLC, MOSCOW/RU  
 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  
 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

**Denominazione prodotto (19B)**

GULF GEAR DB 80W-90  
 GULF GEAR DB 90  
 GULF GEAR DB 85W-90  
 GULF GEAR LD 80W-90  
 GULF GEAR HD 85W-90  
 GULF GEAR LD 80W-90  
 FASTROIL MTF5 80W-90  
 RTO LONGEVIA TC ECO 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  
 Q8 T 55 SAE 80W-90  
 LIEBHERR GEAR HYPOID 90 EP  
 LIQUI MOLY HYPOID-GETRIEBEÖL GL5 SAE 85W-90  
 LIQUI MOLY HYPOID GETRIEBEÖL TDL SAE 80W-90  
 LIQUI MOLY HYPOID-GETRIEBEÖL GL5 SAE 80W-90  
 MEGOL HYPOID-GETRIEBEÖL GL 5 SAE 85W-90  
 MEGOL HYPOID-GETRIEBEÖL TDL 80W-90  
 MEGOL HYPOID-GETRIEBEÖL GL 5 SAE 80W-90  
 MOL HYKOMOL K 85W90  
 MOL HYKOMOL ZF 80W90  
 COMMA PRO EP 80W-90  
 EP 80W-90 GEAR OIL  
 ATOIL LIFT SAE 80W90  
 NISOTEC HIPO LD SAE 80W-90  
 NISOTEC HIPO LD ZF SAE 80W-90  
 OILFINO VARIUS G 500 80W-90  
 LUKOIL TRANSMISSION TM-5 SAE 80W-90  
 LUKOIL TRANSMISSION TM-5 SAE 85W-90  
 LUKOIL TRANSMISSION TM-5 SAE 90  
 LUKOIL TRANSMISSION B 85W-90  
 LUKOIL TRANSMISSION UNI 80W-90  
 LUKOIL TRANSMISSION GL-5 80W-90  
 LUKOIL TRANSMISSION GL-5 90  
 OTOKAR SPECTRA DO Z 80W-90  
 PLATINUM GEAR LL 80W-90  
 PLATINUM GEAR GL-5 80W-90  
 TEBOil HYPOID SAE 80W-90  
 PANOLIN TOPGEAR 80W/90  
 PANOLIN SUPER DUTY 90  
 PANOLIN SUPER DUTY 80W/90  
 PAZ GEAR LD 80W-90  
 TRAXON 80W-90  
 TRAXON 80W-90  
 LUBRAX TRM 5 SAE 90  
 GALP TRANSOIL HP 80W90  
 GALP TRANSOIL HP XT 80W90  
 MAXIGEAR EP-X 80W-90  
 MAXIGEAR TECH EP-X 80W-90  
 PETROMIN GEAR BOX Z12 SAE 80W90  
 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  
 PRISTA EP 90  
 PRISTA EP 80W-90  
 QALCO SUPER GEAR OIL ZX 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  
 ROSNEFT KINETIC HYPOID 80W-90  
 ROSNEFT KINETIC HYPOID 85W-90  
 ROSNEFT HYPOID GL-5 80W-90  
 ROLF TRANSMISSION M5 A 80W-90  
 SHELL SPIRAX MB 90  
 SHELL SPIRAX MB 90  
 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 HD 80W- 90  
 SHELL SPIRAX S4 AX (80W-90)  
 SHELL SPIRAX S4 AX (80W-90)  
 SHELL SPIRAX S4 AX (80W-90)

**Numero di approvazione ZF**

ZF000879  
 ZF000886  
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 ZF001134  
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 ZF001354  
 ZF001619  
 ZF001620  
 ZF001621

**Produttore (19B)**

SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB  
 SINGAPORE PETROLEUM COMPANY LIMITED, SINGAPORE/SG  
 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  
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE  
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE  
 TEDEX S.A., WARSZAWA/PL  
 TEXSA DO BRASIL LTDA, UMUARAMA/PR/BR  
 TEXSA DO BRASIL LTDA, UMUARAMA/PR/BR  
 TEXSA DO BRASIL LTDA, UMUARAMA/PR/BR  
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR  
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR  
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR  
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR  
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR  
 UNIL OPAL, SAUMUR/FR  
 VALVOLINE EUROPE, DORDRECHT/NL  
 ZELLER+GMELIN GMBH&CO.KG, EISLINGEN/DE  
 ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE  
 ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE

**Denominazione prodotto (19B)**

SHELL SPIRAX S6 AZME 75W-85  
 GEARLUBE HG M2 SAE 80W-90  
 SINOPEC GREATWALL MULTIPURPOSE GEAR OIL 80W-90  
 SINOPEC MULTIPURPOSE-II GEAR OIL 80W-90  
 SRS WIOLIN HYPOID-GETRIEBEÖL 80W-90  
 SRS WIOLIN HYPOID-GETRIEBEÖL 90  
 SRS GETRIEBEFLUID SML 80W-90  
 SRS WIOLIN HL 5 SAE 80W-90  
 SRS WIOLIN HL 5 SAE 85W-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  
 ELF TRANSELF TYPE B 90  
 ELF TRANSELF TYPE B 80W-90  
 TOTAL DYNATRANS HD 80W-90  
 TRAXIUM DUAL 8 FE 80W-90  
 TRAXIUM AXLE 7 80W-90  
 GEAR ZF 80W90  
 VALVOLINE HEAVY DUTY AXLE OIL PRO 80W-90 LD  
 DIVINOL MULTI-AXLE 80W90  
 ZF ECOFLUID X SAE 80W-90  
 ZF ECOFLUID XL SAE 75W-85

**Numero di  
approvazione ZF**

ZF004894  
 ZF005976  
 ZF002267  
 ZF003332  
 ZF000441  
 ZF000444  
 ZF000447  
 ZF001911  
 ZF001912  
 ZF001342  
 ZF001941  
 ZF001942  
 ZF003665  
 ZF002069  
 ZF002071  
 ZF002310  
 ZF004817  
 ZF004878  
 ZF000343  
 ZF001837  
 ZF001684  
 ZF001266  
 ZF003441

**Classe dei lubrificanti 19C**

Olio per cambi

Classi di viscosità: SAE 75W-90

**Produttore (19C)**

ADDINOL LUBE OIL GMBH, LEUNA/DE  
 ARAL AG, BOCHUM/DE  
 ARAL AG, BOCHUM/DE  
 BASF SE, LUDWIGSHAFEN/DE  
 BASF SE, LUDWIGSHAFEN/DE  
 BELGIN MADENI YAGLAR TIC. VE SAN. A.S., KOCAELI/TR  
 BLASER SWISSLUBE AG, HASLE-RÜEGSAU/CH  
 BP PLC., LONDON/GB  
 BUCHER AG LANGENTHAL, LANGENTHAL/CH  
 BUCHER AG LANGENTHAL, LANGENTHAL/CH  
 BUCHER AG LANGENTHAL, LANGENTHAL/CH  
 CASTROL LTD, LONDON/GB  
 CASTROL LTD, LONDON/GB  
 CASTROL LTD, LONDON/GB  
 CASTROL LTD, LONDON/GB  
 CEPSA COMERCIAL PETRÓLEO S.A.U., MADRID/ES  
 CEPSA COMERCIAL PETRÓLEO S.A.U., MADRID/ES  
 CHAMPION CHEMICALS N.V., HEMIKSEM/BE  
 CHEVRON LUBRICANTS, SAN RAMON, CA/US  
 CONDAT LUBRIFIANTS, CHASSE SUR RHONE/FR  
 DE OLIEBRON BV, ZWIJNDRECHT/NL  
 ELLIS ENTERPRISES EAST D.O.O. KRUSEVAC, KRUSEVAC/RS  
 ENI S.P.A., ROME/IT  
 ENI 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  
 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  
 FUCHS PETROLUB SE, MANNHEIM/DE  
 FUCHS PETROLUB SE, MANNHEIM/DE  
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU  
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU  
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU  
 GEORG OEST MINERALÖLWERK GMBH & CO.KG, FREUDENSTADT/DE  
 GRUPA LOTOS S.A., GDANSK/PL  
 GULF OIL INTERNATIONAL, MUMBAI/IN  
 HUILES BERLIET S.A., SAINT-PRIEST/FR  
 INA MAZIVA LTD., ZAGREB/HR  
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL  
 LIEBHERR HYDRAULIKBAGGER GMBH, KIRCHDORF/DE  
 LIQUI MOLY GMBH, ULM/DE  
 MEGUIN GMBH & CO. KG, SAARLOUIS/DE  
 MINERVA-OIL SAS, MEUZAC/FR  
 MOL-LUB KFT, ALMASFUZIT/HU  
 MOOVE LUBRICANTS, GRAVESEND/GB  
 MOTUL SA, AUBERVILLIERS/FR  
 NIS AD, NOVI SAD/RS  
 OEL-BRACK AG, HUNZENSCHWIL/CH  
 OOO "LLK-INTERNATIONAL", MOSCOW/RU  
 OOO "LLK-INTERNATIONAL", MOSCOW/RU  
 OOO "LLK-INTERNATIONAL", MOSCOW/RU  
 OY TEBOIL AB, HELSINKI/FI  
 PAKELO MOTOR OIL, SAN BONIFACIO (VR)/IT  
 PANOLIN AG, MADETSWIL/CH  
 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  
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES  
 ROLF LUBRICANTS GMBH, LEVERKUSEN/DE  
 SASOL ENERGY, JOHANNESBURG/ZA  
 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  
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR  
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR  
 VALVOLINE EUROPE, DORDRECHT/NL  
 VALVOLINE EUROPE, DORDRECHT/NL  
 VEEDOL INTERNATIONAL LIMITED, GLASGOW/GB  
 WOLF OIL CORPORATION N.V., HEMIKSEM/BE  
 YACCO SAS, ST PIERRE LES ELBEUF/FR

**Denominazione prodotto (19C)**

ADDINOL GETRIEBEÖL GH 75 W 90 SL  
 ARAL GETRIEBEÖL BS 75W-90  
 ARAL GETRIEBEÖL SNA-E 75W-90  
 EMGARD HP 75W-90  
 EMGARD UAF 7105  
 BELGIN LUBEX MITRAS AX SYN ULTRA 75W-90  
 EVOLCA SGP 75W90  
 BP ENERGEAR SHX-M 75W-90  
 UNISYNT ZX SAE 75W90  
 YORK 896 75W90  
 PENTA TL SAE 75W/90  
 CASTROL SYNTRAX LONG LIFE 75W-90  
 SYNTRAX UNIVERSAL PLUS 75W-90  
 CASTROL TRANSMAX AXLE LONG LIFE 75W-90  
 CASTROL TRANSMAX UNIVERSAL LL 75W-90  
 CEPESA TRANSMISIONES EP FE+LD 75W-90  
 MAN SUPER AXLE 3343 75W-90  
 CHAMPION OEM SPECIFIC 75W90 GL 5  
 DELO SYN-TDL 75W-90  
 GEAR TXS 75W90  
 TOR UNI GEAR LD 75W90  
 MULTHIPO 75W-90 SINT  
 ENI ROTRA LSX 75W-90  
 ENI ROTRA MP 75W-90  
 MOBILUBE 1 SHC 75W-90  
 MOBIL DELVAC SYNTHETIC GEAR OIL 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  
 G-BOX GL-4/GL-5 75W-90  
 GAZPROMNEFT GL-4/GL-5 75W-90  
 KAMAZ G-PROFI SERVICE LINE GL-4/GL-5 75W-90  
 OEST SYNTH GETRIEBEÖL SAE 75W-90  
 TITANIS SUPER GL-5 75W/90  
 GULF SYNGEAR 75W-90  
 RTO LONGEVIA TCX ECO 75W-90  
 INA HIPENOL SHD 75W-90  
 Q8 TRANS XGS 75W-90  
 LIEBHERR SYNTOGEAR PLUS 75W-90  
 LIQUI MOLY VOLLSYN. HYPOID GETR.ÖL TRUCK (75W-90)  
 MEGOL GETRIEBEOEL TRUCK-SYNTH SAE 75W-90  
 PBH EP 75W-90 TDL  
 MOL HYKOMOL TDL 75W90  
 COMMA PRO EP 75W-90 TDL  
 MOTUL GEAR SYNTH TDL 75W-90  
 NISOTEC HIPO SINT TDL SAE 75W-90  
 MIDLAND SENSOGEAR 75W-90  
 LUKOIL TRANSMISSION UNI S 75W-90  
 LUKOIL TRANSMISSION MN 75W-90  
 LUKOIL TRANSMISSION SYNTH BSX 75W-90  
 TEBOIL HYPOID SAE 75W-90  
 GLOBAL MULTIGEAR TS SAE 75W/90  
 PANOLIN SUPER DUTY SYNTH 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  
 REPSOL CARTAGO FE LD 75W90  
 ROLF TRANSMISSION S9 AGE 75W-90  
 SYN GEAR DIFFERENTIAL OIL 75W-90  
 SHELL SPIRAX S6 AXME 75W-90  
 SHELL SPIRAX S6 AXME 75W-90  
 SHELL SPIRAX S6 AXME 75W-90  
 SHELL SPIRAX S6 AXME 75W-90  
 SHELL SPIRAX S6 AXME 75W-90  
 SINOPEC GREATWALL VT 75W/90  
 SRS GETRIEBEFLUID SXL 75W-90  
 ELF TRANSELF SYNTHSE FE 75W-90  
 TOTAL TRANSMISSION DUAL 9 FE 75W-90  
 VALVOLINE HEAVY DUTY TDL PRO 75W-90  
 NESTE PRO AXLE TDL 75W-90  
 VEEDOL TRANSMISSION SYNTHETIC LD 75W-90  
 WOLF OFFICIALTECH 75W90 GL 5  
 BVX 1000 75W-90

**Numero di approvazione ZF**

ZF002260  
 ZF000133  
 ZF000142  
 ZF001716  
 ZF001876  
 ZF005978  
 ZF004734  
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