



Industrial Technology

Assali per trattori, trasmissioni per macchine da raccolta e trasmissioni finali

Tabella dei lubrificanti TE-ML 21

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La tabella dei lubrificanti TE-ML 21, **edizione 01.10.2026** 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.

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Disclaimer: I lubrificanti e i fornitori elencati nel presente documento sono indicati esclusivamente allo scopo di documentare i lubrificanti che sono stati testati per la compatibilità con i nostri prodotti. Questo elenco non costituisce alcuna approvazione, raccomandazione o preferenza per nessuno dei lubrificanti, produttori o fornitori menzionati. L'inclusione di qualsiasi lubrificante in questo elenco non implica che sia superiore ad altre opzioni disponibili, né indica che altri lubrificanti o fornitori non sono adatti per l'uso con i nostri prodotti. Potrebbero esistere ulteriori lubrificanti, produttori o fornitori — noti o meno alla nostra società — che siano pienamente compatibili o comunque idonei all'impiego. Resta esclusiva responsabilità di ciascun cliente verificare e rispettare tutte le leggi e i regolamenti sanzionatori applicabili prima di acquistare uno qualsiasi dei lubrificanti menzionati.

1. Classi di lubrificanti benestariati

Gruppi di prodotto	Classi di lubrificanti ⁽¹⁾	
	Primo riempimento ⁽²⁾	Riempimento di servizio ⁽³⁾
Assali APL-300, APL-700 AS-2000, AS-3000	ZF PowerFluid Gear LS 21C / 21N	ZF PowerFluid Gear LS ZF PowerFluid Plus 21C / 21E / 21F / 21G / 21N
TerraSteerAxle (TSA), TerraDriveAxle (TDA)	ZF PowerFluid Gear LS ZF PowerFluid Plus 21C / 21E / 21F / 21G / 21N	ZF PowerFluid Gear LS ZF PowerFluid Plus 21C / 21E / 21F / 21G / 21N
Trasmissioni per macchine da raccolta 2MD40 3MD30, 3MD35, 3MD40	21A	21A
Semiassi ZF (riduttori epicicloidali finali) per trasmissioni per trattori Eccom, Terramatic, Terrapower, T-7000 e S-Matic	ZF PowerFluid Gear LS ZF PowerFluid Plus 21A / 21C / 21G / 21N	ZF PowerFluid Gear LS ZF PowerFluid Plus 21A / 21C / 21G / 21N
Trasmissioni finali per macchine da raccolta S-800, S-950, S-1050, S-1250	21A	21A

2. Intervalli di sostituzione dell'olio

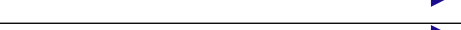
2.1 Intervallo di prima sostituzione dell'olio

Classe dei lubrificanti	21A	ZF PowerFluid Gear LS 21C / 21F / 21N	ZF PowerFluid Plus 21E / 21G
Gruppi di prodotto	Intervallo di prima sostituzione dell'olio		
Assali APL, AS, TSA, TDA	-	1500 h ⁽⁴⁾	1500 h ⁽⁴⁾
Trasmissioni per macchine da raccolta	500 h	-	-
Semiassi ZF	500 h	500 h ⁽⁴⁾	500 h ⁽⁴⁾
Trasmissioni finali per macchine da raccolta	500 h	-	-

2.2 Intervalli di sostituzione dell'olio seguenti

Classe dei lubrificanti	21A	ZF PowerFluid Gear LS 21C / 21F / 21N	ZF PowerFluid Plus 21E / 21G
Gruppi di prodotto	Intervalli di sostituzione dell'olio seguenti		
Assali APL, AS, TSA, TDA	-	1500 h	3000 h
Trasmissioni per macchine da raccolta	1000 h	-	-
Semiassi ZF	1000 h	1000 h	1000 h
Trasmissioni finali per macchine da raccolta	1000 h	-	-

3. Oli idraulici

Gruppi di prodotto	Lubrificanti ammessi per riempimento servizio ⁽¹⁾	Utilizzo con temperatura esterna a partire da
Impianto idraulico freno, blocco differenziale idraulico (DHL) e sterzo	21L	- 40°C 
	Lubrificanti secondo JDM J20D	- 40°C 
	21E / 21F (solo Lubrificanti secondo JDM J20C), 21G	- 30°C 
	21K	- 30°C 
	21M (ISO VG 32)	- 40°C  + 20°C
	21M (ISO VG 46)	- 10°C 
	21M (ISO VG 68)	- 5°C 

4. Zone di ingrassaggio

Gruppi di prodotto	Lubrificanti ammessi per riempimento servizio ⁽¹⁾
Tutti	21Q Intervalli di lubrificazione secondo rispettivi prescrizioni di lubrificazione e manutenzione

5. Spiegazione di note a piè di pagina ed osservazioni

Note a piè di pagina

- (1) **Per prodotti commerciali validati vedi seguenti pagine.**
- (2) Primo riempimento: Per il primo riempimento e per i riempimenti durante la fase di rodaggio del cambio (percorrenza inferiore a 1.000 h) è prescritto l'utilizzo dei lubrificanti delle classi di lubrificanti elencate.
- (3) Riempimento di servizio: I lubrificanti delle classi di lubrificanti elencate vanno utilizzati per le sostituzioni di servizio secondo gli intervalli di sostituzione dell'olio riportati nel par. 2.2.
- (4) Il riempimento originale di fabbrica ZF deve rimanere nell'assale almeno per le prime 500 ore di funzionamento; si sconsigliano cambi d'olio prematuri.

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.

Classe dei lubrificanti 21A

Classi di viscosità: SAE 75W-90 / 75W-110 / 75W-140 / 80W-90 / 80W-110 / 80W-140 / 85W-90 / 85W-110 / 85W-140 / 90

Produttore (21A)	Denominazione prodotto (21A)	Numero di approvazione ZF
ADDINOL LUBE OIL GMBH, LEUNA/DE	ADDINOL GETRIEBEÖL GH 85W-90	ZF000555
ADDINOL LUBE OIL GMBH, LEUNA/DE	ADDINOL GETRIEBEÖL GH 80W-90	ZF000671
ADDINOL LUBE OIL GMBH, LEUNA/DE	ADDINOL GETRIEBEÖL GX 80W-90 ML	ZF000672
ADDINOL LUBE OIL GMBH, LEUNA/DE	ADDINOL GETRIEBEÖL GH 75 W 90 SL	ZF002260
ADDINOL LUBE OIL GMBH, LEUNA/DE	ADDINOL GETRIEBEÖL GH 85 W 140	ZF003561
ADDINOL LUBE OIL GMBH, LEUNA/DE	ADDINOL GETRIEBEÖL GX 80 W 90	ZF003620
AVIA AG, MÜNCHEN/DE	AVIA POWERTRAIN AX 85W-90	ZF012196
AVIA AG, MÜNCHEN/DE	AVIA POWERTRAIN GAX 80W-90	ZF012197
AVIA AG, MÜNCHEN/DE	AVIA POWERTRAIN PREMIUM AX 80W-90	ZF012198
AVIA AG, MÜNCHEN/DE	AVIA POWERTRAIN SUPREME GAX 75W-90	ZF012039
AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE	AVISTA PEER EVO GL5 SAE 80W-90	ZF004777
AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE	AVISTA PEER EVO GL4/GL5 SAE 80W-90	ZF004780
AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE	AVISTA PEER EVO GL5 SAE 85W-90	ZF004793
AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE	AVISTA PEER EVO PRIME GL4/GL5 SAE 80W-90	ZF004797
BAPCO REFINING, AWALI/BH	SPAREX EP 85W-140 GL-5	ZF002318
BASF SE, LUDWIGSHAFEN/DE	EMGARD HP 75W-90	ZF001716
BAYWA AG MÜNCHEN, MÜNCHEN/DE	TECTROL MULTIGEAR HYP 90	ZF005977
BAYWA AG MÜNCHEN, MÜNCHEN/DE	TECTROL MULTIGEAR PLUS 8090	ZF012143
BAYWA AG MÜNCHEN, MÜNCHEN/DE	TECTROL SYNTOGEAR MM 7590	ZF012124
BELGIN MADENI YAGLAR TIC. VE SAN. A.S., KOCAELI/TR	BELGIN LUBEX MITRAS AX SYN ULTRA 75W-90	ZF005978
BELGIN MADENI YAGLAR TIC. VE SAN. A.S., KOCAELI/TR	BELGIN LUBEX MITRAS AX EP MD 80W-90	ZF006035
BELGIN MADENI YAGLAR TIC. VE SAN. A.S., KOCAELI/TR	BELGIN LUBEX MITRAS AX EP PLUS 80W-90	ZF011935
BELGIN MADENI YAGLAR TIC. VE SAN. A.S., KOCAELI/TR	BELGIN LUBEX MITRAS AX EP EXTRA 80W-90	ZF011981
BLASER SWISSLUBE AG, HASLE-RÜEGSAU/CH	EVOLCA SGP 75W90	ZF004734
BLASER SWISSLUBE AG, HASLE-RÜEGSAU/CH	EVOLCA BGP 80W90	ZF004735
CASTROL LTD, LONDON/GB	CASTROL AXLE EPX 85W-140	ZF000910
CASTROL LTD, LONDON/GB	CASTROL AXLE EPX 80W-90	ZF001320
CASTROL LTD, LONDON/GB	CASTROL TRANSMAX AXLE LONG LIFE 75W-90	ZF002142
CASTROL LTD, LONDON/GB	CASTROL TRANSMAX UNIVERSAL LL 80W-90	ZF002143
CASTROL LTD, LONDON/GB	CASTROL TRANSMAX UNIVERSAL LL 75W-90	ZF002144
CASTROL LTD, LONDON/GB	CASTROL TRANSMAX AXLE EPX 80W-90	ZF002163
CASTROL LTD, LONDON/GB	CASTROL TRANSMAX AXLE EPX 85W-90	ZF003394
CASTROL LTD, LONDON/GB	CASTROL TRANSMAX AXLE LONG DRAIN 80W-90	ZF004885
CASTROL LTD, LONDON/GB	CASTROL SAF-XO 75W-90	ZF006097
CASTROL LTD, LONDON/GB	TRANSMAX DYNADRIVE LONG LIFE 80W-90	ZF012233
CHAMPION CHEMICALS N.V., HEMIKSEM/BE	CHAMPION OEM SPECIFIC 75W90 GL 5	ZF003554
CHEVRON LUBRICANTS, SAN RAMON, CA/US	HYPOLID LD SAE 85W-90	ZF000788
CHEVRON LUBRICANTS, SAN RAMON, CA/US	MULTIGEAR PREMIUM EP SAE 85W-140	ZF001196
CHEVRON LUBRICANTS, SAN RAMON, CA/US	MULTIGEAR EP SAE 90	ZF001243
CHEVRON LUBRICANTS, SAN RAMON, CA/US	MULTIGEAR EP-5 SAE 80W-90	ZF002137
CHEVRON LUBRICANTS, SAN RAMON, CA/US	DELO GEAR EP-5 SAE 85W-140	ZF002254
CHEVRON LUBRICANTS, SAN RAMON, CA/US	DELO GEAR TDL 80W-90	ZF002273
CHEVRON LUBRICANTS, SAN RAMON, CA/US	DELO SYN-GEAR XS 75W-140	ZF002274
CHEVRON LUBRICANTS, SAN RAMON, CA/US	DELO GEAR EP-5 SAE 80W-90	ZF002270
CHEVRON LUBRICANTS, SAN RAMON, CA/US	GEARTEX EP-5 80W-90	ZF002279
CHEVRON LUBRICANTS, SAN RAMON, CA/US	DELO SYN-TDL 75W-90	ZF003353
CHEVRON LUBRICANTS, SAN RAMON, CA/US	DELO GEAR CGA SAE 80W-90	ZF003513
CLASS KGAA MBH, HARSEWINKEL/DE	AGRISHIFT MT 80W-90	ZF008203
CLASS KGAA MBH, HARSEWINKEL/DE	AGRISHIFT MT 80W-90	ZF008233
CONDAT LUBRIFIANTS, CHASSE SUR RHONE/FR	GEAR TXS 75W90	ZF000829
CYCLON HELLAS SA, ATHENS/GR	GEAR EP GL-5 80W-90	ZF001604
DE OLIEBRON BV, ZWIJNDRECHT/NL	TOR SUPER GEAR OIL 80W90	ZF000963
DE OLIEBRON BV, ZWIJNDRECHT/NL	TOR UNI GEAR LD 75W90	ZF000964
DEUTSCHE ÖLWERKE LUBMIN, LUBMIN/DE	AVENO TDL ULTIMATE 75W-90	ZF010792
EKO ABEE, ATHENS/GR	EKO GEAROL-5 80W-90	ZF003351
ELLIS ENTERPRISES EAST D.O.O. KRUSEVAC, KRUŠEVAC/RS	MULTIHIPO 75W-90 SINT	ZF000653
ELLIS ENTERPRISES EAST D.O.O. KRUSEVAC, KRUŠEVAC/RS	MULTIHIPO PLUS 80W-90	ZF001086
ELLIS ENTERPRISES EAST D.O.O. KRUSEVAC, KRUŠEVAC/RS	MULTIHIPO 80W-90 F PLUS	ZF001456
ELLIS ENTERPRISES EAST D.O.O. KRUSEVAC, KRUŠEVAC/RS	MULTIHIPO 80W-140 F PLUS	ZF001749
ENILIVE S.P.A., ROME/IT	ENI ROTRA MP 80W-90	ZF000855
ENILIVE S.P.A., ROME/IT	ENI ROTRA MP 85W-140	ZF000856
ENILIVE S.P.A., ROME/IT	ENI ROTRA LSX 75W-90	ZF000860
ENILIVE S.P.A., ROME/IT	ENI ROTRA MP 75W-90	ZF003364
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBILUBE 1 SHC 75W-90	ZF000041
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBILUBE HD-A PLUS 80W-90	ZF000042
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBILUBE HD-A 85W-90	ZF000668
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBILUBE S 80W-90	ZF000776
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBIL DELVAC 1 GEAR OIL 75W-90	ZF001681
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBIL DELVAC 1 GEAR OIL 80W-140	ZF001682
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBIL DELVAC ULTRA TOTAL DRIVELINE 75W-90	ZF003699
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBIL DELVAC MODERN AXLE OIL 80W-90 V1	ZF008180
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBIL DELVAC MODERN AXLE OIL 85W-140 V1	ZF008179
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBIL DELVAC MODERN AXLE OIL 80W-90 V1	ZF008311
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBIL DELVAC MODERN AXLE OIL 85W-140 V1	ZF008309
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBIL DELVAC MODERN AXLE OIL 85W-140 V1	ZF008310
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBIL DELVAC MODERN AXLE OIL 80W-90 HDA	ZF009835
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBIL DELVAC MODERN AXLE OIL 80W-90	ZF012014
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBIL DELVAC MODERN AXLE OIL 85W-90 V1	ZF012012
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBILUBE S 80W-90	ZF012155
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBILUBE HD-A 85W-90	ZF012157

**Numero di
approvazione ZF**

ZF012186
ZF012252
ZF012247
ZF002249
ZF002299
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ZF000642
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**Numero di
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ZF006006
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**Numero di
approvazione ZF**

ZF003629
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ZF000343
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ZF001283
ZF001837
ZF001874
ZF008218
ZF001474
ZF006105
ZF007142
ZF011993
ZF011992
ZF012144
ZF003525
ZF009462
ZF001684

Produttore (21A)	Denominazione prodotto (21A)	Numero di approvazione ZF
ZELLER+GMELIN GMBH&CO.KG, EISLINGEN/DE ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE	DIVINOL GETRIEBEÖL ST 80W90 ZF ECOFLUID X SAE 80W-90	ZF012095 ZF001266

Classe dei lubrificanti 21C

olio per cambi con additivi "limited slip"

Classi di viscosità: SAE 75W-90 / 75W-110 / 75W-140 / 80W-90 / 85W-90 / 90

Produttore (21C)	Denominazione prodotto (21C)	Numero di approvazione ZF
ADDINOL LUBE OIL GMBH, LEUNA/DE	ADDINOL GETRIEBEÖL GH 85W-90 LS	ZF000629
ADDINOL LUBE OIL GMBH, LEUNA/DE	ADDINOL GETRIEBEÖL GH 80W-90 LS	ZF000703
AGCO GMBH, MARKTOBERDORF/DE	VALTRA AXLE LS 85W-90	ZF003466
AGCO GMBH, MARKTOBERDORF/DE	FENDT SUPER TRANS LS 85W-90	ZF003467
AVIA AG, MÜNCHEN/DE	AVIA POWERTRAIN AX-LS 85W-90	ZF012107
AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE	AVISTA PEER EVO GL5 LS SAE 90	ZF004776
BAYWA AG MÜNCHEN, MÜNCHEN/DE	TECTROL MULTIGEAR LS 90	ZF001167
BAYWA AG MÜNCHEN, MÜNCHEN/DE	TECTROL MULTIGEAR LS 90	ZF012142
BELGIN MADENI YAGLAR TIC. VE SAN. A.S., KOCAELI/TR	BELGEAR LS 85W90	ZF002257
BLASER SWISSLUBE AG, HASLE-RÜEGSAU/CH	EVOLCA BGX 85W90	ZF004736
CASTROL LTD, LONDON/GB	CASTROL TRANSMAX LIMITED SLIP LL 75W-140	ZF002141
CASTROL LTD, LONDON/GB	CASTROL TRANSMAX LIMITED SLIP Z 85W-90	ZF002178
CHAMPION CHEMICALS N.V., HEMIKSEM/BE	CHAMPION OEM SPECIFIC 80W90 LS GL 5	ZF003555
CHEVRON LUBRICANTS, SAN RAMON, CA/US	GEAR OIL ZF SAE 80W-90	ZF000787
CHEVRON LUBRICANTS, SAN RAMON, CA/US	GEARTEX LS 80W-90	ZF000809
CHEVRON LUBRICANTS, SAN RAMON, CA/US	GEARTEX LS 85W-90	ZF000810
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBILUBE LS 85W-90	ZF000031
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBILUBE LS 85W-90	ZF011090
EXXONMOBIL CORPORATION, HOUSTON, TX/US	MOBIL DELVAC MODERN AXLE OIL 85W-90 LIMITED SLIP	ZF011912
FUCHS SE, MANNHEIM/DE	FUCHS TITAN GEAR LS SAE 90	ZF000651
GS CALTEX CORPORATION, SEOUL/KR	DOOSAN LS GEAR OIL 80W90	ZF001341
GS CALTEX CORPORATION, SEOUL/KR	DEVOLON LS GEAR OIL 80W90	ZF011965
GULF OIL INTERNATIONAL, MUMBAI/IN	GULF GEAR LS 90	ZF000891
HITACHI CONSTRUCTION MACHINERY EUROPE NV, AMSTERDAM/NL	HITACHI GENUINE AXLE OIL ZX-W LS 80W-90	ZF003705
HUILES BERLIET S.A., SAINT-PRIEST/FR	EP 90 GL	ZF008267
INA MAZIVA LTD., ZAGREB/HR	INA HIPENOL GTL LS 90	ZF000424
JOHN DEERE, MOLINE, ILLINOIS/US	JOHN DEERE GL-5 GEAR LUBRICANT W/LS ADD 80W-90	ZF001312
KUWAIT PETROLEUM (BELGIUM) N.V., ANTWERP/BE	Q8 T 45 LS SAE 90	ZF002109
LIEBHERR HYDRAULIKBAGGER GMBH, KIRCHDORF/DE	LIEBHERR GEAR BASIC 90 LS	ZF000845
LIQUI MOLY GMBH, ULM/DE	LIQUI MOLY HYPOID-GETRIEBEÖL PLUS GL 5 LS 85W-90	ZF001367
LIQUI MOLY PRODUKTIONS GMBH & CO. KG, SAARLOUIS/DE	MEGOL HYPOID-GETRIEBEOEL AXLE LS SAE 85W-90	ZF001345
LUKOIL LUBRICANTS EUROPE GMBH, VIENNA/AT	LUKOIL GEAR GL-5 LS 85W-90	ZF012151
LUKOIL LUBRICANTS EUROPE GMBH, VIENNA/AT	LUKOIL TRANSMISSION LS 80W-90	ZF012140
LUKOIL LUBRICANTS EUROPE GMBH, VIENNA/AT	LUKOIL TRANSMISSION LS 85W-90	ZF012114
MOEVE CLIENT SOLUTIONS, S.A.U., MADRID/ES	CEPSA AURIGA LS PLUS 80W-90	ZF001050
MOL-LUB KFT, ALMASFUZITO/HU	MOL HYKOMOL LS 85W90	ZF001114
MOTOREX AG, LANGENTHAL/CH	MOTOREX YORK LS UNIVERSAL SAE 90	ZF008206
MOTOREX AG, LANGENTHAL/CH	YORK 699 LS SAE 90	ZF008260
NILS SPA, BURGSTALL/IT	ALGOL HYPOID LS 90	ZF003447
NORTHLAND PRODUCTS COMPANY, WATERLOO, IOWA/US	POSI-GRIP JDZF 80W90	ZF000049
OEST LUBRICANTS GMBH & CO.KG, FREUDENSTADT/DE	OEST GETRIEBEÖL HYPOID LS 90	ZF001479
OILFINO MINERALÖL GMBH, PRISDORF/DE	OILFINO VARIUS G 400LS 85W-90	ZF000740
ORLEN OIL SP. Z O.O., KRAKOW/PL	PLATINUM GEAR LS 80W-90	ZF000603
ORLEN OIL SP. Z O.O., KRAKOW/PL	PLATINUM AGRO LS 80W-90	ZF001272
ORLEN OIL SP. Z O.O., KRAKOW/PL	ORLEN OIL GEAR LS 80W-90	ZF011287
ORLEN OIL SP. Z O.O., KRAKOW/PL	ORLEN OIL AGRO LS 80W-90	ZF011924
ORLEN S.A., GDANSK/PL	LOTOS TITANIS LS GL-5 80W-90	ZF000924
PAKELO MOTOR OIL S.P.A. A S.U., SAN BONIFACIO (VR)/IT	UNIVERSAL GEAR EP LS SAE 85W/90	ZF000027
PETROGAL S.A., LISBOA/PT	GALP TRANSOIL HP LS 90	ZF003410
PETROL OFISI A.S., ISTANBUL/TR	MAXIGEAR EP-X 85W-90LS	ZF001480
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	AMBRA AXF 80W-90 (SAE 80W-90)	ZF000546
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	AKCELA AXLEPOWER (SAE 80W-90)	ZF000781
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	TUTELA TRANSMISSION W90/LS (SAE 80W-90)	ZF000901
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	ARBOR TTF (SAE 80W-90)	ZF001373
PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY	PETRONAS AXLE 300 LS 80W-90	ZF009452
PHI OIL GMBH, ST. GEORGEN/AT	SUPERGEAR BRONZE 85W90 LS	ZF001004
REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES	REPSOL CARTAGO EP AUTOBLOCANTE SAE 80W90	ZF000981
REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES	REPSOL NAVIGATOR LSD 80W-90	ZF008276
ROLF LUBRICANTS GMBH, LEVERKUSEN/DE	ROLF TRANSMISSION M5 A-LS 80W-90	ZF003625
SASOL ENERGY, JOHANNESBURG/ZA	SASOL DIFFERENTIAL OIL LIMITED SLIP 80W-90	ZF000700
SAVITA OIL TECHNOLOGIES LIMITED, MUMBAI/IN	SAVSOL AUTOGEAR 90 LIMITED SLIP GL-5	ZF001898
SENNEBOGEN MASCHINENFABRIK GMBH, STEINACH/DE	SENLUBE GEAR HYPOID LS	ZF008345
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB	SHELL SPIRAX S3 ALS 80W-90	ZF001303
SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB	SHELL SPIRAX S3 ALS 85W- 90	ZF004813
SINOPEC LUBRICANT CO., LTD., BEIJING/CN	SINOPEC GREATWALL ZLS GL-5 85W/90	ZF000127
SK ENMOVE CO.,LTD., SEOUL/KR	SK ZIC G-5 LSD 80W-90	ZF003340
SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE	SRS VIOLIN RSH	ZF000442
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR	ELF TRACTELF BLS 80W-90	ZF006120
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR	DYNATRANS DA 80W-90	ZF006121
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR	DYNATRANS LS 80W-90	ZF006122
TOTALENERGIES LUBRIFIANTS, NANTERRE/FR	CLASS AGRISHIFT BLS 80W-90	ZF008173
UNIL OPAL, SAUMUR/FR	GEAR AB-EP 85W90	ZF000526
VALVOLINE EUROPE, DORDRECHT/NL	VALVOLINE HEAVY DUTY AXLE OIL PRO 80W-90 LS	ZF001996
WOLF OIL CORPORATION N.V., HEMIKSEM/BE	WOLF OFFICIALTECH 80W90 LS GL 5	ZF003552
ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE	ZF POWERFLUID GEAR LS	ZF008414

Classe dei lubrificanti 21E

Olio universale per assali e cambi

Produttore (21E)

CHAMPION CHEMICALS N.V., HEMIKSEM/BE
CNH INDUSTRIAL AMERICA LLC, RACINE, WI/US
VIBRA ENERGIA S.A., DUQUE DE CAXIAS/BR
WOLF OIL CORPORATION N.V., HEMIKSEM/BE

Denominazione prodotto (21E)

CHAMPION U.T.T. OIL 80W-140
PREMIUM TRANSAXLE OIL 80W-140
LUBRAX UNITRACTOR 10W-30
WOLF TRACTOFLUID 80W-140

**Numero di
approvazione ZF**

ZF012270
ZF005941
ZF010660
ZF012017

Classe dei lubrificanti 21F

Olío universale per assali e cambi

Produttore (21F)

ADDINOL LUBE OIL GMBH, LEUNA/DE
ADDINOL LUBE OIL GMBH, LEUNA/DE
AGCO GMBH, MARKTOBERDORF/DE
ARGO TRACTORS S.P.A., FABBRICO RE/IT
ARGO TRACTORS S.P.A., FABBRICO RE/IT
ARGO TRACTORS S.P.A., FABBRICO RE/IT
AVIA AG, MÜNCHEN/DE
AVIA AG, MÜNCHEN/DE
AVIA AG, MÜNCHEN/DE
BAYWA AG MÜNCHEN, MÜNCHEN/DE
BAYWA AG MÜNCHEN, MÜNCHEN/DE
BAYWA AG MÜNCHEN, MÜNCHEN/DE
BAYWA AG MÜNCHEN, MÜNCHEN/DE
BELGIN MADENI YAGLAR TIC. VE SAN. A.S., KOCAELI/TR
BELL EQUIPMENT GROUP SERVICES (PTY) LTD, RICHARDS BAY/ZA
BLASER SWISSLUBE AG, HASLE-RÜEGSAU/CH
CASTROL LTD, LONDON/GB
CASTROL LTD, LONDON/GB
CASTROL LTD, LONDON/GB
CATERPILLAR, INC., MOSSVILLE/US
CHAMPION CHEMICALS N.V., HEMIKSEM/BE
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
CNH INDUSTRIAL AMERICA LLC, RACINE, WI/US
CNH INDUSTRIAL AMERICA LLC, RACINE, WI/US
DEUTSCHE ÖLWERKE LUBMIN, LUBMIN/DE
ENGEN PETROLEUM (PTY) LIMITED, CAPE TOWN/ZA
EUROL B.V., NJIVERDAL/NL
EXXONMOBIL CORPORATION, HOUSTON, TX/US
EXXONMOBIL CORPORATION, HOUSTON, TX/US
EXXONMOBIL CORPORATION, HOUSTON, TX/US
EXXONMOBIL CORPORATION, HOUSTON, TX/US
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EXXONMOBIL CORPORATION, HOUSTON, TX/US
EXXONMOBIL CORPORATION, HOUSTON, TX/US
EXXONMOBIL CORPORATION, HOUSTON, TX/US
FINKE MINERALÖLWERK GMBH, 27374 VISSELHÖVEDE/DE
FUCHS SE, MANNHEIM/DE
FUCHS SE, MANNHEIM/DE
FUCHS SE, MANNHEIM/DE
FUCHS SE, MANNHEIM/DE
FUCHS SE, MANNHEIM/DE
GB LUBRICANTS, GATESHEAD/GB
GS CALTEX CORPORATION, SEOUL/KR
GULF OIL INTERNATIONAL, MUMBAI/IN
GULF OIL INTERNATIONAL, MUMBAI/IN
HD HYUNDAI OILBANK, LTD, GYEONGGI-DO/KR
HD HYUNDAI OILBANK, LTD, GYEONGGI-DO/KR
HD HYUNDAI OILBANK, LTD, GYEONGGI-DO/KR
HD HYUNDAI OILBANK, LTD, GYEONGGI-DO/KR
INA MAZIVA LTD., ZAGREB/HR
INA MAZIVA LTD., ZAGREB/HR
INA MAZIVA LTD., ZAGREB/HR
JOHN DEERE, MOLINE, ILLINOIS/US
JOHN DEERE, MOLINE, ILLINOIS/US
KROON-OIL B.V., ALMELO/NL
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
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
LIEBHERR HYDRAULIKBAGGER GMBH, KIRCHDORF/DE
LIEBHERR HYDRAULIKBAGGER GMBH, KIRCHDORF/DE
LIEBHERR HYDRAULIKBAGGER GMBH, KIRCHDORF/DE
LIQUI MOLY GMBH, ULM/DE
LIQUI MOLY GMBH, ULM/DE
LIQUI MOLY PRODUKTIONS GMBH & CO. KG, SAARLOUIS/DE
LIQUI MOLY PRODUKTIONS GMBH & CO. KG, SAARLOUIS/DE
MAPO SCHMIERSTOFFTECHNIK GMBH, HIMBERG BEI WIEN/AT
MOEVE CLIENT SOLUTIONS, S.A.U., MADRID/ES
MOTOREX AG, LANGENTHAL/CH
MOTOREX AG, LANGENTHAL/CH
MOTOREX AG, LANGENTHAL/CH

Denominazione prodotto (21F)

ADDINOL UTTO SAE 10W-30
ADDINOL UTTO EXTRA (SAE 20W-40)
VALTRA TRANSMISSION XT60
VELA C+ AGROLUBE
VELA C+ LANDINI
VELA C+ MCCORMICK
AVIA HYDROFLUID DLZ
AVIA HYDROFLUID TD
AVIA POWERTRAIN UTTO-DLZ
TECTROL UTTO-ZF
TECTROL UTTO-HF
TECTROL UTTO-HF
TECTROL UTTO-HF
TECTROL UTTO-ZF
BELGIN LUBEX AGROS UTTO PLUS
BELL UTTO ULTRA
EVOLCA UTTO 8068
BP TRACTRAN TF-10
CASTROL TRANSMAX AGRI TRANS PLUS 80W
CASTROL TRANSMAX AGRI TRANS PLUS 80W
CAT MULTIPURPOSE TRACTOR OIL
CHAMPION U.T.T. OIL 170 BM
1000 THF
1000 THF
1000 THF
1000 THF
1000 THF
1000 THF
1000 THF
CLAAS AGRISHIFT GA 12
PREMIUM TRANSAXLE OIL 20W-40
PREMIUM TRANSAXLE OIL 20W-40
AVENO UTTO
ENGEN AGRIFLUID
EUROL HYKROL JD 68
MOBILFLUID 424
MOBILFLUID 424
MOBIL HYDRAUL 56
MOBILFLUID 424
MOBILFLUID 428
MOBILFLUID 428
MOBILFLUID 428
MOBILFLUID 428
MOBILFLUID 424
MOBILFLUID 428 V2
MOBILFLUID 428 V2
MOBILFLUID 428 V2
MOBILFLUID 428 V2
MOBILFLUID 428 V2
MOBILFLUID 428 V2
MOBILFLUID 428 V2
AVIATICON AGRA PREMIUM UTTO
FUCHS TITAN UTTO ZF (SAE 20W-40)
FUCHS TITAN AGRIFARM UTTO MP
FUCHS TITAN AGRIFARM UTTO MP
TITAN UTTO WB
FUCHS AGRIFARM UTTO MP
GB UNITRANS(R) ZF
DEVELON AXLE OIL STANDARD
GULF MPTF 10W-30
GULF MPTF 10W-30
XTEER THF 75W-80
DEVELON AXLE GL-4 75W-80
HYUNDAI AXLE GL-4 75W-80
INA TRANSHIDROL JD 50
INA TRANSHIDROL ZF 20W-40
INA TRANSHIDROL JD 50
JOHN DEERE HY-GARD
JOHN DEERE HY-GARD FLEX
AGRIFLUID HT-PLUS
Q8 T 2000
JCB HP GEAR OIL PLUS
JCB HP GEAR OIL PLUS
JCB HP GEAR OIL PLUS
Q8 T 2200
Q8 TERRA 2200 UTTO
ROXOR CONSTAR UTTO 803
LIEBHERR GEAR MF 80W
LIEBHERR GEAR PLUS 20W-40
LIEBHERR GEAR PLUS 20W-40
LIEBHERR GEAR MF 80W
LIQUI MOLY SPECIAL UTTO
LIQUI MOLY TRAKTORÖL UTTO
MEGOL TRAKTORENOEL UTTO PREMIUM SAE 10W-30
MEGOL TRAKTORENOEL UTTO
MAPO TRANSMISSION UTTO
CEPSA AURIGA TE 55 10W-30
MOTOREX YORK FARMER POLY 304
MOTOREX YORK UTTO CF SAE 10W30
MOTOREX YORK FARMER POLY 604

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ZF000509
ZF001845
ZF003465
ZF003719
ZF003717
ZF003718
ZF005975
ZF001811
ZF012242
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ZF002188
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ZF011939
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ZF011906
ZF012274
ZF001200
ZF008198
ZF008241
ZF006009

**Numero di
approvazione ZF**

ZF012042
ZF000849
ZF001351
ZF000544
ZF000545
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ZF010231
ZF010264
ZF010000
ZF000943
ZF009467
ZF011937
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ZF012824
ZF012308
ZF012276
ZF001718
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ZF000105
ZF004916
ZF003380
ZF003867
ZF001346
ZF002222
ZF008262
ZF012180
ZF012113
ZF003565
ZF009470
ZF002041
ZF001366
ZF011996
ZF012278
ZF011927

Classe dei lubrificanti 21G

Olio universale premium per assali e cambi

Produttore (21G)	Denominazione prodotto (21G)	Numero di approvazione ZF
SINOPEC LUBRICANT CO., LTD., BEIJING/CN	SINOPEC GREATWALL HD DRIVE AXLE OIL	ZF002162
ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE	ZF POWERFLUID C-PLUS (GOLD 1)	ZF002087
ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE	ZF POWERFLUID PLUS	ZF005995

Classe dei lubrificanti 21K

Olio motore

Classe di viscosità: SAE 10W, 10W-30, 10W-40

secondo specifica API CD/CE/CF-4/CF/CG-4/CH-4/CI-4/CI-4 Plus/CJ-4

o SF/SG/SH/SJ/SL/SM

o ACEA, categorie A, B, E

Avvertenza:

Sono ammessi tutti i prodotti commerciali che soddisfano le specifiche citate. Nessun elenco di prodotti disponibile.

Classe dei lubrificanti 21L

Automatic Transmission Fluids (ATF) olio base a base di olio minerale secondo la precedente specifica Dexron IID, IIIF, IIIG o IIIH di General Motors.

Avvertenza:

Sono ammessi tutti i prodotti commerciali che soddisfano le specifiche citate. Nessun elenco di prodotti disponibile.

Classe dei lubrificanti 21M

Olio idraulico a base di olio minerale HLP a norma DIN 51524-2 o olio idraulico a base di olio minerale HVLP a norma DIN 51524-3.

Classi di viscosità: ISO VG 32 / 46 / 68

Avvertenza:

Sono ammessi tutti i prodotti commerciali che soddisfano le specifiche sopra citate. Nessun elenco di prodotti disponibile.

Inoltre, possono essere utilizzati i seguenti prodotti commerciali:

Produttore (21M)

PANOLIN DISTRIBUTION AG, STEINHAUSEN/CH
PANOLIN DISTRIBUTION AG, STEINHAUSEN/CH
PANOLIN DISTRIBUTION AG, STEINHAUSEN/CH

Denominazione prodotto (21M)

SHELL PANOLIN S4 HLP SYNTH 32
SHELL PANOLIN S4 HLP SYNTH 46
SHELL PANOLIN S4 HLP SYNTH 68

**Numero di
approvazione ZF**

ZF012032
ZF012033
ZF012034

Classe dei lubrificanti 21N

Olio per cambi con additivi "limited slip"

Classi di viscosità: SAE 75W-90 / 75W-110 / 75W-140 / 80W-90 / 85W-90 / 90

Produttore (21N)

AVIA AG, MÜNCHEN/DE
 BAYWA AG MÜNCHEN, MÜNCHEN/DE
 CHAMPION CHEMICALS N.V., HEMIKSEM/BE
 CHAMPION CHEMICALS N.V., HEMIKSEM/BE
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 FINKE MINERALÖLWERK GMBH, 27374 VISSELHÖVEDE/DE
 FUCHS SE, MANNHEIM/DE
 KROON-OIL B.V., ALMELO/NL
 MORRIS LUBRICANTS, SHREWSBURY/GB
 MOTOREX AG, LANGENTHAL/CH
 PAKELO MOTOR OIL S.P.A. A S.U., SAN BONIFACIO (VR)/IT
 PHI OIL GMBH, ST. GEORGEN/AT
 ROCK OIL, WARRINGTON/GB
 SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
 TONGYI PETROLEUM CHEMICAL CO., LTD., BEIJING/CN
 TOTALENERGIES LUBRIFIANTS, NANTERRE/FR
 WILHELM HOYER B.V. & CO. KG, VISSSELHÖVEDE/DE
 WOLF OIL CORPORATION N.V., HEMIKSEM/BE
 WOLF OIL CORPORATION N.V., HEMIKSEM/BE
 ZELLER+GMELIN GMBH&CO.KG, EISLINGEN/DE

Denominazione prodotto (21N)

AVIA POWERTRAIN PLUS AX-LS 80W-90
 TECTROL MULTIGEAR LS 90 LV
 CHAMPION OEM SPECIFIC 80W-90 LS GL 5 ZF-N
 CHAMPION OEM SPECIFIC 85W-90 LS GL 5 ZF-N
 MOBIL DELVAC MODERN AXLE OIL 80W-90 LIMITED SLIP
 MOBIL DELVAC MODERN AXLE OIL 80W-90 LIMITED SLIP
 MOBIL DELVAC MODERN AXLE OIL 80W-90 LIMITED SLIP
 AVIATICON HYPOID LS PLUS 80W-90
 TITAN SUPERGEAR LS SAE 80W-90
 GEARLUBE LS 80W-90
 TERRAIN LS 80W-90
 MOTOREX YORK LS UNIVERSAL SAE 80W/90
 UNIVERSAL GEAR EP LS SAE 80W-90
 SUPERGEAR BRONZE 80W90 LS
 SD LS 80W-90
 SRS WIOLIN RSH PLUS 80W-90
 TONGYI 80W-90
 DYNATRANS DAX 80W-90
 HOYER GEAR M-LS+ 80W-90
 WOLF OFFICIALTECH 80W-90 LS GL 5 ZF-N
 WOLF OFFICIALTECH 85W-90 LS GL 5 ZF-N
 DIVINOL MULTI-AXLE LS 80W90

Numero di approvazione ZF

ZF012202
 ZF009443
 ZF011947
 ZF012199
 ZF009436
 ZF010924
 ZF011990
 ZF011976
 ZF008289
 ZF009458
 ZF010985
 ZF011905
 ZF010992
 ZF012016
 ZF010297
 ZF009472
 ZF012020
 ZF009422
 ZF011995
 ZF011930
 ZF012185
 ZF010462

Classe dei lubrificanti 21Q

Grasso universale secondo alla specifica / esigenza:

- DIN 51825 Classificazione KP2K-30 e/o
ISO 6743-9 Classificazione ISO-L-XCCEB2 o
ISO 6743-9 Classificazione ISO-L-XCCHB2
- Olio di base: idrocarburi minerali o sintetici (nessun estere)
- Tipo di spessore: Ca, Li (sapone semplice, misto, complesso)
- Classe di consistenza: NLGI 2
- Additivi EP
- Limiti di temperatura d'impiego min. -30°C fino a +120°C

Avvertenza:

Tutti i prodotti commerciali che soddisfano le specifiche / esigenze sopra indicate possono essere utilizzati.
Nessun elenco di prodotti disponibile.

Con temperature esterne superiori a -20 ° C si possono utilizzare anche grassi con la seguente classificazione:

DIN 51825 Classificazione KP2K-20 e/o
ISO 6743-9 Classificazione ISO-L-XBCEB2 o
ISO 6743-9 Classificazione ISO-L-XBCHB2