



Industrial Technology

**Cambi per macchine operatrici
(macchine edili, veicoli speciali, carrelli elevatori)**

Tabella dei lubrificanti TE-ML 03

Indice	Pagina
1. Classi di lubrificanti benestariati	2
2. Intervalli per la sostituzione dell'olio e del filtro	2
2.1 Intervallo di prima sostituzione	3
2.2 Intervalli di sostituzione seguenti	3
3. Classe di applicazione	3
4. Limite inferiore d'utilizzo a basse temperature	4
5. Spiegazione di note a piè di pagina ed osservazioni	4
6. Classi di lubrificanti e prodotti commerciali benestariati	5

La tabella dei lubrificanti TE-ML 03, **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.

ZF Friedrichshafen AG
D-88038 Friedrichshafen
www.zf.com/contact

1. Classi di lubrificanti benestariati

Gruppi di prodotto	Lubrificanti ammessi per il riempimento servizio ⁽¹⁾
WG WG 80, 81, 83, 85, 86 WG 92, 98, 100 WG 120, 121, 150, 151, 158 WG 180, 181, 200, 201 WG 250, 251 WG 65 HN 500 PW 45H ERGOPOWER WG 110	<p style="text-align: center;">03A, 03E, 03G, 03H, 03K</p> Utilizzo solo con temperatura esterna < - 10°C: 03D, 03F Benestare per utilizzo oli speciali su domanda da parte ZF
ERGOPOWER WG 115, 116, 130, 131, 160, 161, 171, 190, 191, 210, 211, 230, 260, 261, 310, 311 BASICPOWER BP 190, 210, 230	<p style="text-align: center;">03A, 03B, 03C, 03D, 03E ⁽²⁾, 03G, 03H, 03K</p> Utilizzo solo con temperatura esterna < - 10°C: 03F
ERGOPOWER L2 EP 320, 370, 420, 470, 520	<p style="text-align: center;">03A, 03B, 03C, 03H, 03K</p>
ERGOPOWER L2 (generazione A) EP 320 A, 370 A, 420 A, 470 A, 520 A, 520 R	<p style="text-align: center;">03H, 03M</p>
WG 90, WG 94	<p style="text-align: center;">03A, 03E, 03G, 03H, 03K</p> Utilizzo solo con temperatura esterna < - 30°C: 03D, 03F
WG 92 S4	<p style="text-align: center;">03A, 03K JOHN DEERE, Waterloo/USA: HY-GARD</p> Utilizzo solo con temperatura esterna < - 10°C: 03F
cPOWER CP 190, 210, 230, 260, 290, 310, 330	<p style="text-align: center;">03G, 03L</p> Utilizzo solo con temperatura esterna < - 20°C: 03F
Ripartitori di coppia TB92-432, TB92C-430, TB92-280 I3, TB92-430 I4	<p style="text-align: center;">03E, 03G, 03H</p>

2. Intervalli per la sostituzione dell'olio e del filtro

2.1 Intervallo di prima sostituzione

Classe dei lubrificanti	03A, 03B, 03C, 03D, 03E, 03F, 03H, 03K	03G	03L	03M
Classe di applicazione	Cambio olio e filtro dopo [h]			
1	100-500 h	100-500 h	-	-
2	100-500 h **)	100-500 h **)	-	-
3	-	2000 h *)	2000 h *)	-
4	Solo il filtro: 100-500 h	-	-	Solo il filtro: 100-500 h

2.2 Intervalli di sostituzione seguenti

Classe dei lubrificanti	03A, 03B, 03C, 03D, 03E, 03F, 03H, 03K	03G	03L	03M
Classe di applicazione	Intervallo cambio olio e filtro [h]			
1	2000 h	2000 h	-	-
2	1500 h	1500 h	-	-
3	-	2000 h *)	2000 h *)	-
4	1000 h	-	-	Filtro: 2000 h Olio: 4000 h

*) Per il filtro principale di flusso (elemento filtrante vicino al controllo della trasmissione) l'intervallo di sostituzione del filtro dell'olio è di 2000 h e per il filtro idrostatico (elemento filtrante vicino al coperchio idrostatico) l'intervallo di sostituzione del filtro dell'olio è di 6000 h.

**) Per il gruppo di prodotti WG, il primo cambio (olio e filtro) deve avvenire a 100 h.

Anche il filtro dell'olio deve essere sostituito ad ogni cambio dell'olio. Sono ammessi solo filtri originali ZF High Performance.

3. Classe di applicazione

Classe di applicazione	Esempi d'impiego
1	- ERGOPOWER, BASICPOWER, 2WG 94, 3WG 94
2	- WG, 4WG 90/94, 5WG 94, WG 92 S4, Ripartitori di coppia
3	- cPOWER
4	- ERGOPOWER L2, ERGOPOWER L2 (generazione A)

4. Limite inferiore d'utilizzo a basse temperature

Classe dei lubrificanti	Tipo di olio /Classi di viscosità:	Utilizzo con temperatura esterna a partire da		
		WG / WG 92 S4 / Ripartitori di coppia	ERGOPOWER BASICPOWER WG 90 / WG 94 ERGOPOWER L2	cPOWER
03D, 03M	- ATF	- 30°C	- 40°C	-
03F	- UTTO secondo JDM J20D / John Deere Low Viscosity Hy-Gard	- 30°C	- 40°C	- 40°C
03E, 03G, 03H, 03L	- UTTO	- 20°C	- 30°C	- 20°C
03K	- SAE 0W-30, 0W-40	- 30°C	- 40°C	-
03B, 03C, 03K	- SAE 5W-30, 5W-40	- 25°C	- 35°C	-
03A, 03B, 03C, 03K	- SAE 10W, 10W-30, 10W-40	- 20°C	- 30°C	-
03A, 03C, 03K	- SAE 15W-30, 15W-40	- 15°C	- 25°C	-
03A, 03C, 03K	- SAE 20W-20, 20W40	- 10°C	- 20°C	-
03A, 03C, 03K	- SAE 30	- 5°C	- 10°C	-

5. Spiegazione di note a piè di pagina ed osservazioni

- (1) **Per i prodotti commerciali ammessi, intervalli di sostituzione dell'olio e limite inferiore d'impiego a basse temperature vedi seguenti pagine.**
- (2) I prodotti segnati con (*) nella classe di lubrificanti 03E non devono essere utilizzati con le pale gommate John Deere.

Nei punti da lubrificare occorre utilizzare un grasso universale saponificato a base di litio mescolabile con olio minerale della classe NLGI 2 (denominazione del grasso KP2K-30 secondo DIN 51825 oppure ISO-L-XCCHB2 secondo ISO 6743-9).

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 03A

Olio motore

(API CD/CE/CF-4/CF/CG-4/CH-4/CI-4/SF/SG/SH/SJ/SL o ACEA, categorie A, B, E)

Classe di viscosità: SAE 20W-20 / 30 / 10W-30 / 10W-40 / 15W-30 / 15W-40 / 20W-40

Olio base API Group 1 / 2 / 3

Avvertenza:

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

In questa classe di lubrificanti non sono ammessi oli con specifiche API CI-4 Plus, CJ-4, CK-4, SM o ACEA, categoria E9 (nemmeno con le suddette specifiche). Gli oli con queste specifiche sono elencati nella classe di lubrificanti 03K.

Classe dei lubrificanti 03B

Olio motore

(API CD/CE/CF-4/CF/CG-4/CH-4/CI-4/SF/SG/SH/SJ/SL o ACEA, categorie A, B, E)

Classe di viscosità: SAE 10W / 5W-30 / 5W-40

In questa classe di lubrificanti non sono ammessi oli con specifiche API CI-4 Plus, CJ-4, CK-4, SM o ACEA, categoria E9 (nemmeno con le suddette specifiche). Gli oli con queste specifiche sono elencati nella classe di lubrificanti 03K.

Produttore (03B)

FUCHS PETROLUB SE, MANNHEIM/DE
 GS CALTEX CORPORATION, SEOUL/KR
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 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

Denominazione prodotto (03B)

FUCHS TITAN UNIVERSAL HD SAE 10W
 DOOSAN DX 10W
 Q8 T 400 SAE 10W
 Q8 T 520 SAE 10W
 URANIA C 10W (SAE 10W)
 AMBRA SUPER 10 (SAE 10W)
 AKCELA ENGINE OIL 10 (SAE 10W)
 ARBOR SUPER 10 (SAE 10W)

Numero di approvazione ZF

ZF002013
 ZF000619
 ZF000113
 ZF000119
 ZF000480
 ZF000610
 ZF000611
 ZF000612

Classe dei lubrificanti 03C

Olio per macchine edili

Classe di viscosità: SAE 5W-30 / 5W-40 / 10W / 10W-30 / 10W-40 / 15W-30 / 15W-40 / 20W-20 / 20W-40 / 30

Produttore (03C)

ADDINOL LUBE OIL GMBH, LEUNA/DE
 ARAL AG, BOCHUM/DE
 ARAL AG, BOCHUM/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
 BAYWA AG MÜNCHEN, MÜNCHEN/DE
 BP PLC., LONDON/GB
 BP PLC., LONDON/GB
 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
 CASTROL LTD, LONDON/GB
 CASTROL LTD, LONDON/GB
 CASTROL LTD, LONDON/GB
 CASTROL LTD, LONDON/GB
 CASTROL LTD, LONDON/GB
 CATERPILLAR, INC., MOSSVILLE/US
 CATERPILLAR, INC., MOSSVILLE/US
 CHAMPION CHEMICALS N.V., HEMIKSEM/BE
 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
 ELLIS ENTERPRISES EAST D.O.O. KRUSEVAC, KRUSEVAC/RS
 ELLIS ENTERPRISES EAST D.O.O. KRUSEVAC, KRUSEVAC/RS
 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
 FINKE MINERALÖLWERK GMBH, 27374 VISSELHÖVEDE/DE
 FUCHS PETROLUB SE, MANNHEIM/DE
 FUCHS PETROLUB SE, MANNHEIM/DE
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU
 GS CALTEX CORPORATION, SEOUL/KR
 GS CALTEX CORPORATION, SEOUL/KR
 INA MAZIVA LTD., ZAGREB/HR
 INA MAZIVA LTD., ZAGREB/HR
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 MOL-LUB KFT, ALMASFUZITO/HU
 MOL-LUB KFT, ALMASFUZITO/HU
 NIS AD, NOVI SAD/RS
 NIS AD, NOVI SAD/RS
 ORLEN OIL SP. Z O.O., KRAKOW/PL
 PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA
 PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA
 PETROGAL S.A., LISBOA/PT
 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
 PHI OIL GMBH, ST. GEORGEN/AT
 PRISTA OIL HOLDING EAD, RUSE/BG
 PRISTA OIL HOLDING EAD, RUSE/BG
 RAFINERIJA NAFT E AD BEOGRAD, BELGRADE/RS
 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
 RN-LUBRICANTS, LLC, MOSCOW/RU
 RN-LUBRICANTS, LLC, MOSCOW/RU
 ROLF LUBRICANTS GMBH, LEVERKUSEN/DE
 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
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 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

Denominazione prodotto (03C)

ADDINOL FLUID TO-4 SAE 30
 ARAL FLUID TO-4 10W
 ARAL FLUID TO-4 30
 AVIA GEAR ALCAT 410
 AVIA GEAR ALCAT 430
 AVISTA SPECIAL GEAR OIL TO-4 SAE 30
 AVISTA SPECIAL GEAR OIL TO-4 SAE 10W
 AVISTA PEAK EVO TO-4 SAE 10W
 AVISTA PEAK EVO TO-4 SAE 30
 TECTROL UTTO-TO
 BP AUTRAN 4 10
 BP AUTRAN 4 30
 BP AUTRAN TO 410
 BP AUTRAN TO 430
 BP AUTRAN 4 10
 BP AUTRAN 4 30
 GEAR OIL MEGA TO-4 SAE 10W
 GEAR OIL MEGA TO-4 SAE 30
 CASTROL TRANSMAX OFFROAD 30
 CASTROL TFC 410
 CASTROL TRANSMAX OFFROAD 10
 CASTROL TFC 410
 CASTROL TFC 430
 CAT TDTO SAE 10W
 CAT TDTO SAE 30
 CHAMPION U.T.T. OIL 500
 CHAMPION TDTO SAE 10W
 DELO TORQFORCE SAE 30
 DELO TORQFORCE SAE10W
 URSA TORQFORCE SAE 30
 URSA TORQFORCE SAE10W
 TRANSHIDO TO-4 SAE 10W
 TRANSHIDO TO-4 SAE 30
 EUROL POWERSHIFT LSA 10W
 MOBILTRANS HD 10W
 MOBILTRANS HD 30
 MOBILTRANS HD 30
 MOBILTRANS HD 30
 AVIATICON CTO PREMIUM 10W-30
 FUCHS TITAN UTTO TO-4 SAE 30
 FUCHS TITAN UTTO TO-4 SAE 10W
 G-SPECIAL TO-4 10W
 G-SPECIAL TO-4 30
 KIXX GEARTEC TO-4 10W
 KIXX GEARTEC TO-4 30
 INA TRANSMATIK 30
 INA TRANSMATIK 10W
 Q8 TO-4 FLUID SAE 10W
 Q8 TO-4 FLUID SAE 30
 MOL TRANSFLUID TO-4 SAE 30
 MOL TRANSFLUID TO-4 SAE 10W
 NISOTEC TRANSFLUID TO-4 SAE 30
 NISOTEC TRANSFLUID TO-4 SAE10W
 HIPOL ATF II E
 PRODURO TO-4 30
 PRODURO TO-4 10W
 GALP MULTITRANS 10W
 GALP MULTITRANS 30
 PETRONAS CATOIL 10W (SAE 10W)
 TUTELA TRANS TO-4 (SAE 10W)
 TUTELA TRANS TO-4 (SAE 30)
 KOMCAT SILVER
 PRISTA TO-4 10W
 PRISTA TO-4 30
 GALAX TRANS TO SAE 10W
 RAVENOL CATOEL TO-4 SAE 10W
 RAVENOL CATOEL TO-4 SAE 30
 REPSOL TRANSMISSIONS TO-4 SAE 10W
 REPSOL TRANSMISSIONS TO-4 SAE 10W
 REPSOL TRANSMISSIONS TO-4 SAE 10W
 REPSOL TRANSMISSIONS TO-4 SAE 30
 ROSNEFT KINETIC CATRAN SAE 10W
 ROSNEFT KINETIC CATRAN SAE 30
 ROLF TDTO SAE 30
 ROLF TDTO SAE 10W
 SHELL SPIRAX S4 CX 30
 SHELL SPIRAX S4 CX 10 W
 SHELL SPIRAX S4 CX 30
 SHELL SPIRAX S4 CX 10 W
 SHELL SPIRAX S4 CX 30
 SHELL SPIRAX S6 CXME
 SHELL SPIRAX S4 CX 10 W
 SHELL SPIRAX S4 CX 30
 SINOPEC PREMIUM HD 30 TRANSMISSION OIL

Numero di approvazione ZF

ZF000511
 ZF000148
 ZF000149
 ZF003687
 ZF003688
 ZF002033
 ZF002034
 ZF004770
 ZF004771
 ZF002194
 ZF000192
 ZF001000
 ZF001402
 ZF001405
 ZF005986
 ZF005987
 ZF001739
 ZF001740
 ZF000267
 ZF000298
 ZF000300
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 ZF000999
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 ZF002245
 ZF000329
 ZF000330
 ZF003623
 ZF003396
 ZF004868
 ZF002014
 ZF002015
 ZF001426
 ZF005931
 ZF005937
 ZF001077
 ZF000883
 ZF000884
 ZF002160
 ZF001851
 ZF001852
 ZF003469
 ZF003470
 ZF003471
 ZF003472
 ZF003342
 ZF003343
 ZF004857
 ZF004890
 ZF000005
 ZF000402
 ZF000969
 ZF000970
 ZF001209
 ZF001790
 ZF002307
 ZF005945
 ZF001088

Produttore (03C)

SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE
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
TOTAL LUBRIFIANTS S.A., NANTERRE/FR
TOTAL LUBRIFIANTS S.A., NANTERRE/FR
TOTAL LUBRIFIANTS S.A., NANTERRE/FR
TOTAL LUBRIFIANTS S.A., NANTERRE/FR
WOLF OIL CORPORATION N.V., HEMIKSEM/BE
WOLF OIL CORPORATION N.V., HEMIKSEM/BE

Denominazione prodotto (03C)

SRS GETRIEBEFLUID ZFC
SRS WIOLIN 410
SRS WIOLIN 430
TEXSA TAC-4 30
MONTANA DYNAMIC HYDROTORK 4 30
TOTAL DYNATRANS AC 10W
TOTAL DYNATRANS AC 30
TOTAL DYNATRANS ACX 10W
TOTAL DYNATRANS ACX 30
WOLF TDTO SAE 10W
WOLF TRACTOFLUID 500

**Numero di
approvazione ZF**

ZF000584
ZF001931
ZF001932
ZF001921
ZF003668
ZF001820
ZF001821
ZF002216
ZF002217
ZF003582
ZF003583

Classe dei lubrificanti 03D

Automatic Transmission Fluids (ATF)

Produttore (03D)

ACPA, ALEXANDRIA/EG
 ADDINOL LUBE OIL GMBH, LEUNA/DE
 ADDINOL LUBE OIL GMBH, LEUNA/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
 BAYWA AG MÜNCHEN, MÜNCHEN/DE
 BAYWA AG MÜNCHEN, MÜNCHEN/DE
 CEPESA COMERCIAL PETRÓLEO S.A.U., MADRID/ES
 CEPESA 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
 COMERCIAL ROSHFRANS, S.A. DE C.V., MEXICO, D.F./MX
 ENI S.P.A., ROME/IT
 EXXONMOBIL CORPORATION, HOUSTON, TX/US
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU
 GRUPA LOTOS S.A., GDANSK/PL
 HILL CORPORATION, SHYMKENT/KZ
 ICONIC LUBRICANTES SA, RIO DE JANEIRO/BR
 INA MAZIVA LTD., ZAGREB/HR
 INA MAZIVA LTD., ZAGREB/HR
 INA MAZIVA LTD., ZAGREB/HR
 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
 MOL-LUB KFT, ALMASFUZITO/HU
 MOL-LUB KFT, ALMASFUZITO/HU
 OY TEBOIL AB, HELSINKI/FI
 PAKELI MOTOR OIL, SAN BONIFACIO (VR)/IT
 PAKELI MOTOR OIL, SAN BONIFACIO (VR)/IT
 PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA
 PETROBRAS DISTRIBUIDORA S.A., DUQUE DE CAXIAS/BR
 PETROL OFISI A.S., ISTANBUL/TR
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 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
 SINOPEC LUBRICANT CO., LTD., BEIJING/CN
 SPECOL SP. Z O.O., CHORZOW/PL
 VALVOLINE, LEXINGTON/US

Denominazione prodotto (03D)

ACPA DEX-IIIH
 ADDINOL ATF XN 2
 ADDINOL ATF XN 3
 AVISTA SUPER FLUID TYP P/CN
 AVISTA SUPER FLUID ATF 3000
 PENNASOL SUPER FLUID ATF 3000
 PENNASOL SUPER FLUID TYP P/CN
 MOTOR GOLD FLUIDTEC TYP P/CN
 MOTOR GOLD FLUIDTEC ATF 3000
 AVISTA PEER EVO ATF 3000
 AVISTA PEER EVO ATF 2000
 TECTROL ATF 3000
 TECTROL ATF 4000
 CEPESA ATF 3000 S
 CEPESA ATF 2000S
 TEXAMATIC 4291
 DELO SYN ATF HD
 HAVOLINE MULTI-VEHICLE ATF
 ATF ALLPOWER MULTIVEHICULOS
 ENI ROTRA ATF II E
 MOBIL ATF 320
 G-BOX ATF DXII
 G-BOX EXPERT ATF DX III
 GAZPROMNEFT ATF DX III
 LOTOS ATF SUPER III G
 FASTROIL ATF 3
 IPIRANGA ATF OEM PREMIUM
 INA ATF SUPER
 INA ATF DX IID
 INA ATF DX IIH
 Q8 AUTO Z3D
 LIEBHERR HYDRAULIC-GEAR ATF
 LIQUI MOLY TOP TEC ATF 1100
 LIQUI MOLY MARINE ATF
 LIQUI MOLY ATF III
 MEGOL TRANSMISSION-FLUID ATF III
 MOL ATF SYNT 3H
 MOL ATF SYNT
 TEBOIL FLUID E
 AUXON II E
 ATF XT III FLUID
 DURADRIVE HD SYNTHETIC BLEND ATF
 LUBRAX ATF HD
 ATF DX-3
 PETRONAS TUTELA ATF 500 HD
 PETRONAS TUTELA ATF 500 HD
 REPSOL MATIC III
 REPSOL MATIC LD ATF
 SHELL SPIRAX S2 ATF AX
 SPIRAX S4 ATF HDX
 SINOPEC GREATWALL ATF HD
 HIPOSPEC ATF IID
 SYN GARD™ ATF ES

Numero di approvazione ZF

ZF004823
 ZF003702
 ZF004910
 ZF002128
 ZF002129
 ZF002296
 ZF002297
 ZF002311
 ZF002312
 ZF004774
 ZF004775
 ZF004798
 ZF004799
 ZF000386
 ZF002040
 ZF001574
 ZF001664
 ZF001714
 ZF000385
 ZF000951
 ZF000043
 ZF001955
 ZF004918
 ZF004919
 ZF000620
 ZF003429
 ZF004887
 ZF000248
 ZF000392
 ZF002314
 ZF003726
 ZF002119
 ZF004926
 ZF004927
 ZF004928
 ZF004922
 ZF001895
 ZF004917
 ZF003321
 ZF000048
 ZF001177
 ZF004790
 ZF002120
 ZF001667
 ZF003635
 ZF004757
 ZF000318
 ZF001751
 ZF000374
 ZF001812
 ZF003348
 ZF003354
 ZF003710

Classe dei lubrificanti 03E

Olio universale per assali e cambi

Attenersi alla nota a piè di pagina n. 2 a pagina 2.**Produttore (03E)**

ADDINOL LUBE OIL GMBH, LEUNADE
 ARAL AG, BOCHUM/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
 BAYWA AG MÜNCHEN, MÜNCHEN/DE
 BLASER SWISSLUBE AG, HASLE-RÜEGSAU/CH
 BP PLC., LONDON/GB
 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
 CATERPILLAR, INC., MOSSVILLE/US
 CEPESA COMERCIAL PETRÓLEO S.A.U., MADRID/ES
 CHEVRON LUBRICANTS, SAN RAMON, CA/US
 CLASS KGAA MBH, HARSEWINKEL/DE
 DEUTSCHE ÖLWERKE LUBMIN, LUBMIN/DE
 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
 FINKE MINERALÖLWERK GMBH, 27374 VISSELHÖVEDE/DE
 FUCHS PETROLUB SE, MANNHEIM/DE
 FUCHS PETROLUB SE, MANNHEIM/DE
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU
 GAZPROMNEFT-LUBRICANTS, MOSCOW/RU
 GB LUBRICANTS, GATESHEAD/GB
 GS CALTEX CORPORATION, SEOUL/KR
 GULF OIL INTERNATIONAL, MUMBAI/IN
 GULF OIL INTERNATIONAL, MUMBAI/IN
 HYUNDAI OILBANK CO., LTD., SEOUL/KR
 INA MAZIVA LTD., ZAGREB/HR
 INA MAZIVA LTD., ZAGREB/HR
 JCB INDIA, BALLABGARH/IN
 JOHN DEERE, MOLINE, ILLINOIS/US
 JXTG NIPPON OIL & ENERGY CORPORATION, TOKYO/JP
 KUWAIT PETROLEUM INTERNATIONAL LUBRICANT, ANTWERP/NL
 LIEBHERR HYDRAULIKBAGGER GMBH, KIRCHDORF/DE
 LIEBHERR HYDRAULIKBAGGER GMBH, KIRCHDORF/DE
 LIQUI MOLY GMBH, ULM/DE
 MEGUIN GMBH & CO. KG, SAARLOUIS/DE
 OOO "LLK-INTERNATIONAL", MOSCOW/RU
 OOO "LLK-INTERNATIONAL", MOSCOW/RU
 PAKELO MOTOR OIL, SAN BONIFACIO (VR)/IT
 PANOLIN AG, MADETSWIL/CH
 PETROBRAS DISTRIBUIDORA S.A., DUQUE DE CAXIAS/BR
 PETROGAL S.A., LISBOA/PT
 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
 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
 PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY
 PHI OIL GMBH, ST. GEORGEN/AT
 RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/DE
 REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES
 ROLF LUBRICANTS GMBH, LEVERKUSEN/DE
 SAME DEUTZ FAHR, TREVIGLIO/IT
 SAME DEUTZ FAHR, TREVIGLIO/IT
 SASOL ENERGY, JOHANNESBURG/ZA
 SASOL ENERGY, JOHANNESBURG/ZA
 SAVITA OIL TECHNOLOGIES LIMITED, MUMBAI/IN
 SEANON PETROCHEMICAL CO.,LTD., LUZHOU, GUANGXI/CN
 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 (03E)

ADDINOL UTTO SAE 10W-30
 ARAL FLUID HGS
 VELA C+ LANDINI
 VELA C+ MCCORMICK
 VELA C+ AGROLUBE
 AVIA HYDROFLUID TD
 AVIA HYDROFLUID DLZ
 TECTROL UTTO-HF
 EVOLCA UTTO 8068
 BP TRACTRAN TF-10
 FARMER POLY 304
 MOTOREX UTTO CF
 CASTROL AGRI TRANS PLUS 80W
 CASTROL AGRI TRANS PLUS 10W-30
 CASTROL TRANSMAX AGRI TRANS PLUS 80W
 CASTROL AGRI TRANS PLUS 80W
 CASTROL TRANSMAX AGRI TRANS PLUS 80W
 CAT MULTIPURPOSE TRACTOR OIL
 CEPESA AURIGA TE 55 10W-30
 CHEVRON 1000 THF
 CLAAS AGRISHIFT GA 12
 AVENO UTTO
 EUROL HYKROL JD 68
 MOBILFLUID 424 (*)
 MOBIL HYDRAUL 56
 MOBILFLUID 424 (*)
 MOBILFLUID 428
 AVIATICON AGRA PREMIUM UTTO
 FUCHS TITAN AGRIFARM UTTO MP
 FUCHS TITAN AGRIFARM UTTO MP
 G-SPECIAL UTTO 10W-30
 G-SPECIAL UTTO 10W-30
 G-SPECIAL UTTO PREMIUM 10W-30
 GB UNITRANS(R) ZF
 DOOSAN AXLE OIL STANDARD
 GULF MPTF 10W-30
 GULF MPTF 10W-30
 XTEER THF 75W-80
 INA TRANSHIDROL JD 50
 INA TRANSHIDROL JD 50
 JCB REAR AXLE OIL
 JOHN DEERE HY-GARD
 KUBOTA UDT-HD
 Q8 T 2000
 LIEBHERR GEAR MF 80W
 LIEBHERR GEAR MF 80W
 LIQUI MOLY SPECIAL UTTO
 MEGOL TRAKTORENOEL UTTO PREMIUM SAE 10W-30
 LUKOIL VERSO PLUS
 LUKOIL VERSO LVX
 UTTO FLUID 4 D SAE 10W-30
 PANOLIN JD 303
 LUBRAX UNITRACTOR SAE 10W-30
 GALP TRALUB 807 S
 MAXITRAK TMS OIL 500
 PETROMIN MP TRACTOR 10W30
 AMBRA MULTI G (SAE 10W-30)
 AMBRA MULTI G (SAE 10W-30)
 AMBRA MULTI G (SAE 10W-30)
 AMBRA MULTI G (SAE 10W-30)
 ARBOR MTF (SAE 10W-30)
 AKCELA NEXPLORE (SAE 10W-30)
 AKCELA NEXPLORE (SAE 10W-30)
 AMBRA MULTI G (SAE 10W-30)
 AKCELA NEXPLORE (SAE 10W-30)
 ARBOR MTF (SAE 10W-30)
 AMBRA MULTI G (SAE 10W-30)
 PETRONAS AKCELA NEXPLORE (SAE 10W-30)
 GEAR OIL UTTO SILVER 10W-30
 RAVENOL GETRIEBEOEL UTTO
 REPSOL ORION UTTO
 ROLF UTTO SAE 10W-30
 SDF UTTO
 DF UTTO
 UNIVERSAL TRANSMISSION OIL 68
 SASOL UNIVERSAL TRANSMISSION OIL RS 68
 SAVSOL 315 HAT
 SEANON DEDICATED TRANSMISSION OIL 10W-30
 SHELL SPIRAX S4 TXM
 SHELL SPIRAX S4 TXM
 SHELL SPIRAX S4 TXM
 SHELL SPIRAX S6 TXME

Numero di approvazione ZF

ZF000509
 ZF000457
 ZF003717
 ZF003718
 ZF003719
 ZF001811
 ZF005975
 ZF002193
 ZF004739
 ZF000897
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 ZF003675
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 ZF003439
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 ZF0000870
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 ZF003375
 ZF002229
 ZF002230
 ZF000707
 ZF001828
 ZF001131
 ZF001959
 ZF000357
 ZF000358
 ZF000359
 ZF001295

Produttore (03E)

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
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 VALVOLINE CUMMINS PVT LIMITED, GURGAON/IN
 VALVOLINE EUROPE, DORDRECHT/NL
 VALVOLINE EUROPE, DORDRECHT/NL
 WOLF OIL CORPORATION N.V., HEMIKSEM/BE

Denominazione prodotto (03E)

SHELL SPIRAX S4 TXM
 SHELL SPIRAX S4 TXM
 SHELL SPIRAX S4 TXM
 SINOPEC GREATWALL UTTO
 SRS HYDROFLUID N
 SRS HYDROFLUID A
 TOTAL DYNATRANS MPV
 ELF TRACTELF BF 16
 TOTAL DYNATRANS MPWB
 TOTAL DYNATRANS MPX
 VALVOLINE UTF PREMIUM
 UNITRAC 80W
 NESTE GEAR UTTO
 WOLF TRACTOFLUID 170 BM

**Numero di
approvazione ZF**

ZF001613
 ZF003325
 ZF005938
 ZF000105
 ZF000827
 ZF004867
 ZF000540
 ZF001317
 ZF001539
 ZF002222
 ZF002218
 ZF002041
 ZF003473
 ZF005951

Classe dei lubrificanti 03F

Olio universale per assali e cambi secondo JDM J20D

Utilizzo con temperatura esterna < -10 °C

Produttore (03F)

JOHN DEERE, MOLINE, ILLINOIS/US
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 (03F)

JOHN DEERE LOW VISCOSITY HY-GARD
SHELL SPIRAX S3 TLV
SHELL SPIRAX S3 TLV
SHELL SPIRAX S3 TLV
SHELL SPIRAX S3 TLV

Numero di approvazione

ZF
ZF001498
ZF000364
ZF000365
ZF001709
ZF001848

Classe dei lubrificanti 03G

Olio universale premium per assali e cambi

Produttore (03G)

SINOPEC LUBRICANT CO., LTD., BEIJING/CN
ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE
ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE

Denominazione prodotto (03G)

SINOPEC GREATWALL HD DRIVE AXLE OIL
ZF POWERFLUID C-PLUS
ZF POWERFLUID PLUS

Numero di approvazione

ZF
ZF002162
ZF002087
ZF005995

Classe dei lubrificanti 03H

Oli lubrificante biodegradabile

Etichettatura ecologica RAL-UZ 79 (etichetta ecologica), VAMIL-regeling

Classe di viscosità: SAE 75W-80, 10W-30

Nota relativa all'utilizzo di oli lubrificanti biodegradabili:

In caso di passaggio ad un olio lubrificante biodegradabile occorre attenersi alle prescrizioni in materia di sostituzione della qualità dell'olio contenute nella descrizione del prodotto del produttore del lubrificante.

Produttore (03H)

PANOLIN AG, MADETSWIL/CH

Denominazione prodotto (03H)

PANOLIN BIOFLUID ZFH 10W/30

Numero di approvazione**ZF**

ZF000391

Classe dei lubrificanti 03K

Olio motore

(API CI-4 Plus/CJ-4/CK-4/SM o ACEA, categoria E9)

Classe di viscosità: SAE 0W-30 / 0W-40 / 5W-30 / 5W-40 / 10W / 20W-20 / 30 / 10W-30 / 10W-40 / 15W-30 / 15W-40 / 20W-40

Produttore (03K)

AVISTA OIL DEUTSCHLAND GMBH, UETZE/DE
CHEVRON LUBRICANTS, SAN RAMON, CA/US
JOHN DEERE, MOLINE, ILLINOIS/US
JOHN DEERE, MOLINE, ILLINOIS/US
JOHN DEERE, MOLINE, ILLINOIS/US

Denominazione prodotto (03K)

AVISTA PATH EVO PRIME E9 SAE 15W-40
URSA ULTRA LE 10W-30
JOHN DEERE PLUS 50 II 15W-40
JOHN DEERE PLUS 50 II 10W-30
JOHN DEERE PLUS 50 II 0W-40

Numero di approvazione

ZF
ZF004822
ZF001550
ZF001395
ZF001486
ZF001487

Classe dei lubrificanti 03L

Olio universale per assali e cambi

Produttore (03L)

CLASS KGAA MBH, HARSEWINKEL/DE
 GS CALTEX CORPORATION, SEOUL/KR
 JOHN DEERE, MOLINE, ILLINOIS/US
 LIEBHERR HYDRAULIKBAGGER GMBH, KIRCHDORF/DE
 LIEBHERR HYDRAULIKBAGGER GMBH, KIRCHDORF/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
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR
 TOTAL LUBRIFIANTS S.A., NANTERRE/FR

Denominazione prodotto (03L)

CLAAS AGRISHIFT GA 12
 DOOSAN AXLE OIL STANDARD
 JOHN DEERE HY-GARD
 LIEBHERR GEAR MF 80W
 LIEBHERR GEAR MF 80W
 SHELL SPIRAX S4 TXM
 SHELL SPIRAX S4 TXM
 SHELL SPIRAX S4 TXM
 SHELL SPIRAX S6 TXME
 SHELL SPIRAX S4 TXM
 SHELL SPIRAX S4 TXM
 SHELL SPIRAX S4 TXM
 SHELL SPIRAX S4 TXM
 TOTAL DYNATRANS MPV
 ELF TRACTELF BF 16
 TOTAL DYNATRANS MPWB

Numero di approvazione

ZF
 ZF001289
 ZF001995
 ZF001223
 ZF001856
 ZF004844
 ZF000357
 ZF000358
 ZF000359
 ZF001295
 ZF001613
 ZF003325
 ZF005938
 ZF000540
 ZF001317
 ZF001539

Classe dei lubrificanti 03M
Automatic Transmission Fluids (ATF)**Produttore (03M)**

BASF SE, LUDWIGSHAFEN/DE
CASTROL LTD, LONDON/GB
CASTROL LTD, LONDON/GB
EXXONMOBIL CORPORATION, HOUSTON, TX/US
JOHN DEERE, MOLINE, ILLINOIS/US

Denominazione prodotto (03M)

EMGARD 2805
CASTROL TRANSYND
TES-295 SYN TRANSMISSION FLUID
MOBIL DELVAC 1 ATF
HD SYNTHETIC TRANSMISSION FLUID

Numero di approvazione

ZF
ZF003370
ZF000226
ZF002298
ZF001827
ZF004851