



Industrial Technology

## Ejes de tractores, transmisiones para cosechadoras y salidas finales

## Lista de lubricantes TE-ML 21

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La lista de lubricantes TE-ML 21, **edición 01.10.2026** sustituye a todas las anteriores ediciones. La lista válida en cada momento puede solicitarse en cualquier Servicio Oficial-ZF o consultarse en 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)

Exoneración de responsabilidad: Los lubricantes y proveedores enumerados en este documento se presentan únicamente con el propósito de documentar lubricantes que fueron probados para su compatibilidad con nuestros productos. Este listado no constituye un respaldo, recomendación o preferencia para ninguno de los lubricantes, fabricantes o proveedores mencionados. La inclusión de cualquier lubricante en esta lista no implica que sea superior a otras opciones disponibles, ni indica que otros lubricantes o proveedores sean inadecuados para su uso con nuestros productos. Puede haber lubricantes, fabricantes o proveedores adicionales, ya sean conocidos o desconocidos para nosotros, que sean totalmente compatibles o apropiados de otro modo. Es responsabilidad exclusiva de cada cliente verificar y cumplir todas las leyes y regulaciones de sanción aplicables antes de comprar cualquiera de los lubricantes mencionados.

**1. Clases de lubricantes aprobados**

| Grupos de productos                                                                                                                           | Clases de lubricantes <sup>(1)</sup>                                                                       |                                                                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
|                                                                                                                                               | Primer llenado <sup>(2)</sup>                                                                              | Llenado de servicio <sup>(3)</sup>                                                                         |
| <b>Ejes</b><br>APL-300, APL-700<br>AS-2000, AS-3000                                                                                           | <a href="#">ZF PowerFluid Gear LS</a><br>21C / 21N                                                         | <a href="#">ZF PowerFluid Gear LS</a><br><a href="#">ZF PowerFluid Plus</a><br>21C / 21E / 21F / 21G / 21N |
| TerraSteerAxle (TSA), TerraDriveAxle (TDA)                                                                                                    | <a href="#">ZF PowerFluid Gear LS</a><br><a href="#">ZF PowerFluid Plus</a><br>21C / 21E / 21F / 21G / 21N | <a href="#">ZF PowerFluid Gear LS</a><br><a href="#">ZF PowerFluid Plus</a><br>21C / 21E / 21F / 21G / 21N |
| <b>Transmisiones para cosechadoras</b><br>2MD40<br>3MD30, 3MD35, 3MD40                                                                        | 21A                                                                                                        | 21A                                                                                                        |
| <b>Semiejes-ZF</b> (grupos planetarios de salida) para transmisiones para tractores agrícolas Eccom, Terramatic, Terrapower, T-7000 y S-Matic | <a href="#">ZF PowerFluid Gear LS</a><br><a href="#">ZF PowerFluid Plus</a><br>21A / 21C / 21G / 21N       | <a href="#">ZF PowerFluid Gear LS</a><br><a href="#">ZF PowerFluid Plus</a><br>21A / 21C / 21G / 21N       |
| <b>Salidas finales para cosechadoras</b><br>S-800, S-950, S-1050, S-1250                                                                      | 21A                                                                                                        | 21A                                                                                                        |

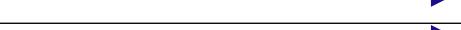
**2. Intervalos de cambio de aceite****2.1 Primer intervalo de cambio de aceite**

| Clases de lubricantes                    | 21A                                  | <a href="#">ZF PowerFluid Gear LS</a><br>21C / 21F / 21N | <a href="#">ZF PowerFluid Plus</a><br>21E / 21G |
|------------------------------------------|--------------------------------------|----------------------------------------------------------|-------------------------------------------------|
| Grupos de productos                      | Primer intervalo de cambio de aceite |                                                          |                                                 |
| <b>Ejes APL, AS, TSA, TDA</b>            | -                                    | 1500 h <sup>(4)</sup>                                    | 1500 h <sup>(4)</sup>                           |
| <b>Transmisiones para cosechadoras</b>   | 500 h                                | -                                                        | -                                               |
| <b>Semiejes-ZF</b>                       | 500 h                                | 500 h <sup>(4)</sup>                                     | 500 h <sup>(4)</sup>                            |
| <b>Salidas finales para cosechadoras</b> | 500 h                                | -                                                        | -                                               |

**2.2 Intervalo de cambio de aceite siguiente**

| Clases de lubricantes                    | 21A                                     | <a href="#">ZF PowerFluid Gear LS</a><br>21C / 21F / 21N | <a href="#">ZF PowerFluid Plus</a><br>21E / 21G |
|------------------------------------------|-----------------------------------------|----------------------------------------------------------|-------------------------------------------------|
| Grupos de productos                      | Intervalo de cambio de aceite siguiente |                                                          |                                                 |
| <b>Ejes APL, AS, TSA, TDA</b>            | -                                       | 1500 h                                                   | 3000 h                                          |
| <b>Transmisiones para cosechadoras</b>   | 1000 h                                  | -                                                        | -                                               |
| <b>Semiejes-ZF</b>                       | 1000 h                                  | 1000 h                                                   | 1000 h                                          |
| <b>Salidas finales para cosechadoras</b> | 1000 h                                  | -                                                        | -                                               |

### 3. Aceites hidráulicos

| Grupo de producto                                                         | Lubricantes admitidos para el llenado de servicio <sup>(1)</sup> | Empleo a temperaturas exteriores a partir de                                                     |
|---------------------------------------------------------------------------|------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| Hidráulica de freno, bloqueo hidráulico del diferencial (DHL) y dirección | 21L                                                              | - 40°C         |
|                                                                           | lubricantes según JDM J20D                                       | - 40°C         |
|                                                                           | 21E / 21F (sólo lubricantes según 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. Puntos de engrase

| Grupos de productos | Lubricantes admitidos para el llenado de servicio <sup>(1)</sup>                                        |
|---------------------|---------------------------------------------------------------------------------------------------------|
| Todos               | 21Q<br>Intervalo de lubricación según las correspondientes disposiciones de lubricación y mantenimiento |

### 5. Explicación de notas a pie de página y otras observaciones

#### Notas a pie de página

- (1) **Productos comerc. autorizados: ver pág. siguientes.**
- (2) Primeira colocação: as classes de lubrificantes indicadas são recomendadas para a primeira colocação na transmissão e para colocação durante a primeira fase de funcionamento (transmissões com quilometragem abaixo de 1.000 km).
- (3) Colocação de serviço: as classes de lubrificantes indicadas são recomendadas para a troca de óleo de serviço segundo os intervalos previstos no ponto 2.2.
- (4) El llenado en fábrica ZF original debe permanecer en el eje como mínimo durante las primeras 500 horas de servicio. Se desaconseja un cambio de aceite prematuro.

#### Observaciones

Los aditivos, de cualquier tipo, que se le añadan al aceite **posteriormente**, modifican el aceite en una forma no calculable y por tanto no son admisibles. ZF no se hace responsable de todas aquellas averías derivadas de la utilización de este tipo de aditivos.

6. Clases de lubricantes y productos comerciales aprobados

Clase de lubricantes 21A

Aceite para cajas de cambios

Clases de viscosidad: SAE 75W-90 / 75W-110 / 75W-140 / 80W-90 / 80W-110 / 80W-140 / 85W-90 / 85W-110 / 85W-140 / 90

| Fabricante (21A)                                    | Denominación del producto (21A)           | Número de homologación de 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, AWAL/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                | HYPOID 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                     |

## Número de homologación de ZF

|                                                              |                                                    |          |
|--------------------------------------------------------------|----------------------------------------------------|----------|
| EXXONMOBIL CORPORATION, HOUSTON, TX/US                       | MOBIL DELVAC MODERN AXLE OIL 85W-90 V1             | ZF012186 |
| EXXONMOBIL CORPORATION, HOUSTON, TX/US                       | MOBIL DELVAC MODERN AXLE OIL 85W-90 V1             | ZF012252 |
| EXXONMOBIL CORPORATION, HOUSTON, TX/US                       | MOBILUBE HD-A 85W-90                               | ZF012247 |
| FINKE MINERALÖLWERK GMBH, 27374 VISSSELHÖVEDE/DE             | AVIATICON FINKOGEAR PREMIUM 75W-90                 | ZF002249 |
| FINKE MINERALÖLWERK GMBH, 27374 VISSSELHÖVEDE/DE             | AVIATICON FINKOGEAR SUPER 80W-90                   | ZF002299 |
| FINKE MINERALÖLWERK GMBH, 27374 VISSSELHÖVEDE/DE             | AVIATICON HYPOID EP 80W-90                         | ZF012141 |
| FUCHS SE, MANNHEIM/DE                                        | FUCHS TITAN CYTRAC HSY SAE 75W-90                  | ZF000642 |
| FUCHS SE, MANNHEIM/DE                                        | FUCHS TITAN GEAR HYP LD SAE 80W-90                 | ZF000645 |
| FUCHS SE, MANNHEIM/DE                                        | FUCHS TITAN SUPERGEAR SAE 80W-90                   | ZF000647 |
| FUCHS SE, MANNHEIM/DE                                        | FUCHS TITAN SUPERGEAR SAE 85W-140                  | ZF000650 |
| FUCHS SE, MANNHEIM/DE                                        | FUCHS TITAN GEAR HYP SAE 90                        | ZF000656 |
| FUCHS SE, MANNHEIM/DE                                        | FUCHS TITAN SUPERGEAR MC SAE 80W-90                | ZF000722 |
| FUCHS SE, MANNHEIM/DE                                        | FUCHS TITAN CYTRAC RR SAE 75W-90                   | ZF000732 |
| FUCHS SE, MANNHEIM/DE                                        | GEARWAY S5 75W-90                                  | ZF001030 |
| FUCHS SE, MANNHEIM/DE                                        | GEARWAY G5 80W-90                                  | ZF001036 |
| FUCHS SE, MANNHEIM/DE                                        | PENTOSIN GETRIEBEÖL O-226 80W-90                   | ZF001195 |
| FUCHS SE, MANNHEIM/DE                                        | PENTOSIN G5 85W-90                                 | ZF001422 |
| FUCHS SE, MANNHEIM/DE                                        | FUCHS TITAN CYTRAC TD SAE 75W-90                   | ZF003341 |
| FUCHS SE, MANNHEIM/DE                                        | FUCHS AGRIFARM GEAR SAE 80W-90                     | ZF003624 |
| FUCHS SE, MANNHEIM/DE                                        | PENTOSIN GEAR SAE 80W-90                           | ZF004809 |
| FUCHS SE, MANNHEIM/DE                                        | PENTOSIN GEAR SAE 85W-140                          | ZF004810 |
| FUCHS SE, MANNHEIM/DE                                        | FUCHS TITAN SUPERGEAR SAE 85W-110                  | ZF004921 |
| FUCHS SE, MANNHEIM/DE                                        | PENTOSIN GEAR PRO SAE 75W-90                       | ZF004930 |
| FUCHS SE, MANNHEIM/DE                                        | PENTOSIN GEAR ULTRA SAE 75W-90                     | ZF004931 |
| FUCHS SE, MANNHEIM/DE                                        | TITAN SUPERGEAR PLUS SAE 80W-90                    | ZF010958 |
| FUCHS SE, MANNHEIM/DE                                        | TITAN SUPERGEAR MC SAE 80W-140                     | ZF006028 |
| GS CALTEX CORPORATION, SEOUL/KR                              | KIXX GEARTEC X GL-5 80W-90                         | ZF003553 |
| GULF OIL INTERNATIONAL, MUMBAI/IN                            | GULF GEAR TDL 80W-90                               | ZF000780 |
| GULF OIL INTERNATIONAL, MUMBAI/IN                            | GULF SYNGEAR 75W-90                                | ZF000863 |
| GULF OIL INTERNATIONAL, MUMBAI/IN                            | GULF GEAR DB 80W-90                                | ZF000879 |
| GULF OIL INTERNATIONAL, MUMBAI/IN                            | GULF GEAR DB 90                                    | ZF000886 |
| GULF OIL INTERNATIONAL, MUMBAI/IN                            | GULF GEAR DB 85W-90                                | ZF000887 |
| GULF OIL INTERNATIONAL, MUMBAI/IN                            | GULF GEAR HD 85W-90                                | ZF001151 |
| GULF OIL INTERNATIONAL, MUMBAI/IN                            | GULF GEAR LD 80W-90                                | ZF001950 |
| HD HYUNDAI OILBANK, LTD, GYEONGGI-DO/KR                      | DEVELON AXLE LSD 80W-90                            | ZF012283 |
| HD HYUNDAI OILBANK, LTD, GYEONGGI-DO/KR                      | HYUNDAI AXLE LSD 80W-90                            | ZF012292 |
| HUILES BERLIET S.A., SAINT-PRIEST/FR                         | LONGEVIA TC ECO 80W-90                             | ZF008379 |
| HUILES BERLIET S.A., SAINT-PRIEST/FR                         | LONGEVIA TCX ECO 75W-90                            | ZF008392 |
| HUILES BERLIET S.A., SAINT-PRIEST/FR                         | LONGEVIA HD 80W-90                                 | ZF008396 |
| IGOL FRANCE, AMIENS/FR                                       | SYNTHEGEAR 75W-90                                  | ZF008361 |
| INA MAZIVA LTD., ZAGREB/HR                                   | INA HIPENOL GTL DB 90                              | ZF000416 |
| INA MAZIVA LTD., ZAGREB/HR                                   | INA HIPENOL GTL HD 80W-90                          | ZF000417 |
| INA MAZIVA LTD., ZAGREB/HR                                   | INA HIPENOL GTL HD 85W-140                         | ZF000418 |
| INA MAZIVA LTD., ZAGREB/HR                                   | INA HIPENOL TDL 80W-90                             | ZF000432 |
| INA MAZIVA LTD., ZAGREB/HR                                   | INA HIPENOL SHD 75W-90                             | ZF000977 |
| INGRAX INDUSTRIA E COMERCIO DE GRAXA S/A, DUQUE DE CAXIAS/BR | MULTIGEROL 85W140                                  | ZF001630 |
| KUWAIT PETROLEUM (BELGIUM) N.V., ANTWERP/BE                  | Q8 TRANS XGS 75W-90                                | ZF000179 |
| KUWAIT PETROLEUM (BELGIUM) N.V., ANTWERP/BE                  | Q8 TRANS XGR 75W-140                               | ZF000853 |
| KUWAIT PETROLEUM (BELGIUM) N.V., ANTWERP/BE                  | Q8 GEAR OIL XG SAE 80W-90                          | ZF002103 |
| KUWAIT PETROLEUM (BELGIUM) N.V., ANTWERP/BE                  | Q8 AXLE OIL XG SAE 80W-140                         | ZF002102 |
| KUWAIT PETROLEUM (BELGIUM) N.V., ANTWERP/BE                  | Q8 SYNTHETIC GEAR OIL SAE 80W-140                  | ZF002105 |
| KUWAIT PETROLEUM (BELGIUM) N.V., ANTWERP/BE                  | Q8 T 55 SAE 80W-90                                 | ZF002110 |
| KUWAIT PETROLEUM (BELGIUM) N.V., ANTWERP/BE                  | Q8 T 55 SAE 85W-140                                | ZF002111 |
| KUWAIT PETROLEUM (BELGIUM) N.V., ANTWERP/BE                  | Q8 T 55 SAE 90                                     | ZF002112 |
| KUWAIT PETROLEUM (BELGIUM) N.V., ANTWERP/BE                  | Q8 T 55 SAE 80W-90                                 | ZF003681 |
| LAEMMLE CHEMICALS AG, MADETSWIL/CH                           | ROXOR SUPER DUTY SYNTH 75W-140                     | ZF010967 |
| LAEMMLE CHEMICALS AG, MADETSWIL/CH                           | ROXOR SUPER DUTY SYNTH 75W-90                      | ZF009457 |
| LAEMMLE CHEMICALS AG, MADETSWIL/CH                           | ROXOR TOPGEAR 80W-90                               | ZF010966 |
| LIEBHERR HYDRAULIKBAGGER GMBH, KIRCHDORF/DE                  | LIEBHERR HYPOID 85W-140 EP                         | ZF000847 |
| LIEBHERR HYDRAULIKBAGGER GMBH, KIRCHDORF/DE                  | LIEBHERR GEAR HYPOID 90 EP                         | ZF004912 |
| LIEBHERR HYDRAULIKBAGGER GMBH, KIRCHDORF/DE                  | LIEBHERR SYNTOGear PLUS 75W-90                     | ZF006012 |
| LIQUI MOLY GMBH, ULM/DE                                      | LIQUI MOLY HYPOID-GETRIEBEÖL GL5 SAE 85W-90        | ZF000695 |
| LIQUI MOLY GMBH, ULM/DE                                      | LIQUI MOLY HYPOID GETRIEBEÖL TDL SAE 80W-90        | ZF001323 |
| LIQUI MOLY GMBH, ULM/DE                                      | LIQUI MOLY VOLL SYN. HYPOID GETR.ÖL TRUCK (75W-90) | ZF001347 |
| LIQUI MOLY GMBH, ULM/DE                                      | LIQUI MOLY HYPOID-GETRIEBEÖL GL5 SAE 80W-90        | ZF002053 |
| LIQUI MOLY GMBH, ULM/DE                                      | LIQUI MOLY HYPOID-GETRIEBEÖL (GL5) SAE 85W-140     | ZF005974 |
| LIQUI MOLY PRODUKTIONS GMBH & CO. KG, SAARLOUIS/DE           | MEGOL HYPOID-GETRIEBEÖL GL 5 SAE 85W-90            | ZF000069 |
| LIQUI MOLY PRODUKTIONS GMBH & CO. KG, SAARLOUIS/DE           | MEGOL HYPOID-GETRIEBEÖL TDL 80W-90                 | ZF001183 |
| LIQUI MOLY PRODUKTIONS GMBH & CO. KG, SAARLOUIS/DE           | MEGOL GETRIEBEÖL TRUCK-SYNTH SAE 75W-90            | ZF001291 |
| LIQUI MOLY PRODUKTIONS GMBH & CO. KG, SAARLOUIS/DE           | MEGOL HYPOID-GETRIEBEÖL GL 5 SAE 85W-140           | ZF001997 |
| LIQUI MOLY PRODUKTIONS GMBH & CO. KG, SAARLOUIS/DE           | MEGOL HYPOID-GETRIEBEÖL GL 5 SAE 80W-90            | ZF001998 |
| LUKOIL LUBRICANTS EUROPE GMBH, VIENNA/AT                     | LUKOIL TRANSMISSION LD 80W-90                      | ZF010982 |

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| MOTOREX AG, LANGENTHAL/CH                                 | MOTOREX YORK GEAR ZX TP SAE 80W/90              | ZF000606 |
| MOTOREX AG, LANGENTHAL/CH                                 | MOTOREX YORK UNIVERSAL SAE 80W90                | ZF006027 |
| MOTOREX AG, LANGENTHAL/CH                                 | MOTOREX_YORK UNIVERSAL CT SAE 80W/90            | ZF006108 |
| MOTOREX AG, LANGENTHAL/CH                                 | MOTOREX YORK GEAR ZX TP SAE 80W/140             | ZF007146 |
| MOTOREX AG, LANGENTHAL/CH                                 | MOTOREX YORK UNISYNT ZX SAE 75W90               | ZF008207 |
| MOTUL SA, AUBERVILLIERS/FR                                | MOTUL GEAR SYNTH TDL 75W-90                     | ZF000825 |
| OEL-BRACK AG, HUNZENSCHWIL/CH                             | MIDLAND SENSOGEAR 75W-90                        | ZF003680 |
| OEST LUBRICANTS GMBH & CO.KG, FREUDENSTADT/DE             | OEST SYNTH GETRIEBEÖL SAE 75W-90                | ZF000491 |
| OEST LUBRICANTS GMBH & CO.KG, FREUDENSTADT/DE             | OEST GETRIEBEÖL FE SAE 80W-90 GL4/5             | ZF000565 |
| OEST LUBRICANTS GMBH & CO.KG, FREUDENSTADT/DE             | OEST MEHRZWECK-GETRIEBEÖL SPEZIAL SAE 85W-90    | ZF000566 |
| OILFINO MINERALÖL GMBH, PRISDORF/DE                       | OILFINO VARIUS G 500 80W-90                     | ZF000741 |
| ORLEN OIL SP. Z O.O., KRAKOW/PL                           | PLATINUM GEAR GL-5 80W-90                       | ZF000502 |
| ORLEN OIL SP. Z O.O., KRAKOW/PL                           | ORLEN OIL GEAR GL-5 80W-90                      | ZF011288 |
| ORLEN OIL SP. Z O.O., KRAKOW/PL                           | ORLEN OIL GEAR LL 80W-90                        | ZF011188 |
| ORLEN S.A., GDANSK/PL                                     | LOTOS TITANIS GL-5 80W-90                       | ZF000923 |
| ORLEN S.A., GDANSK/PL                                     | TITANIS SUPER GL-5 80W-90                       | ZF001098 |
| ORLEN S.A., GDANSK/PL                                     | LOTOS TITANIS GL-5 80W-90                       | ZF005949 |
| PAKELO MOTOR OIL S.P.A. A S.U., SAN BONIFACIO (VR)/IT     | GLOBAL MULTIGEAR TS SAE 75W/90                  | ZF001224 |
| PAKELO MOTOR OIL S.P.A. A S.U., SAN BONIFACIO (VR)/IT     | GLOBAL GEAR SA SAE 85W-140                      | ZF001831 |
| PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA     | TRAXON 85W-140                                  | ZF000778 |
| PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA     | TRAXON XL SYNTHETIC BLEND 80W-140               | ZF002287 |
| PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA     | TRAXON 80W-90                                   | ZF003389 |
| PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA     | TRAXON 85W-140                                  | ZF003390 |
| PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA     | TRAXON 85W-140                                  | ZF011057 |
| PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA     | TRAXON 80W-90                                   | ZF011024 |
| PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA     | TRAXON XL SYNTHETIC BLEND 80W-140               | ZF011058 |
| PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA     | TRAXON SYNTHETIC 75W-90                         | ZF011913 |
| PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA     | TRAXON 80W-90                                   | ZF000764 |
| PETRO-CANADA LUBRICANTS INC., MISSISSAUGA, ONTARIO/CA     | TRAXON SYNTHETIC 75W-90                         | ZF002212 |
| PETROGAL S.A., LISBOA/PT                                  | GALP TRANSOIL HP 80W90                          | ZF000772 |
| PETROGAL S.A., LISBOA/PT                                  | GALP TRANSOIL HP 85W140                         | ZF000773 |
| PETROGAL S.A., LISBOA/PT                                  | GALP TRANSVEX TDL 85W140                        | ZF000777 |
| PETROGAL S.A., LISBOA/PT                                  | GALP TRANSVEX TDL 75W90                         | ZF000980 |
| PETROGAL S.A., LISBOA/PT                                  | GALP TRANSOIL HP XT 80W90                       | ZF001981 |
| PETROL OFISI A.S., ISTANBUL/TR                            | MAXIGEAR TECH EP-X 80W-90                       | ZF001665 |
| PETROL OFISI A.S., ISTANBUL/TR                            | MAXIGEAR D 75W-90                               | ZF001591 |
| PETROL OFISI A.S., ISTANBUL/TR                            | MAXIGEAR EP-X 80W-90                            | ZF001499 |
| PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY | ARBOR TRW 90 (SAE 80W-90)                       | ZF000007 |
| PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY | ARBOR TRW 140 (SAE 85W-140)                     | ZF000008 |
| PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY | AMBRA HYPOIDE 90 (SAE 80W-90)                   | ZF000231 |
| PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY | AKCELA GEAR 135H EP (SAE 80W-90)                | ZF000232 |
| PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY | AKROS GEAR EP 90 (SAE 80W-90)                   | ZF000233 |
| PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY | AMBRA HYPOIDE 140 (SAE 85W-140)                 | ZF000234 |
| PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY | AKCELA GEAR 135H EP (SAE 85W-140)               | ZF000235 |
| PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY | TUTELA TRANSMISSION W90/LA (SAE 80W-90)         | ZF000516 |
| PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY | TUTELA TRANSMISSION W90/M-DA (SAE 80W-90)       | ZF000666 |
| PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY | TUTELA TRANSMISSION W140/M-DA (SAE 85W-140)     | ZF000667 |
| PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY | TUTELA TRANSMISSION X-ROAD (75W-140)            | ZF000839 |
| PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY | TUTELA TRANSMISSION FE-AXLE (SAE 75W-90)        | ZF001199 |
| PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY | ARBOR TRW 90 (SAE 80W-90)                       | ZF001201 |
| PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY | TUTELA TRANSMISSION STARGEAR AX-ED (SAE 75W-90) | ZF001738 |
| PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY | TUTELA TRANSMISSION W140/M-DA (SAE 85W-140)     | ZF003636 |
| PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY | AMBRA HYPOIDE 90 (SAE 80W-90)                   | ZF003638 |
| PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY | PETRONAS TUTELA AXLE 700 EHD 75W-90             | ZF003639 |
| PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY | TUTELA TRANSMISSION W 90/LA (SAE 80W-90)        | ZF003640 |
| PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY | ARBOR TRW 90 (SAE 80W-90)                       | ZF003641 |
| PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY | AKCELA GEAR 135H EP (SAE 80W-90)                | ZF003642 |
| PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY | AMBRA HYPOIDE 140 (SAE 85W-140)                 | ZF003647 |
| PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY | AKCELA GEAR 135H EP (SAE 85W-140)               | ZF003648 |
| PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY | ARBOR TRW 140 (SAE 85W-140)                     | ZF003649 |
| PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY | AKROS GEAR EP 90 (SAE 80W-90)                   | ZF003658 |
| PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY | TUTELA TRANSMISSION W 90/M-DA (SAE 80W-90)      | ZF003659 |
| PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY | PETRONAS TUTELA AXLE 700 EHD 75W-140            | ZF003685 |
| PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY | PETRONAS TUTELA AXLE 300 85W-140                | ZF003696 |
| PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY | PETRONAS TUTELA AXLE 300 80W-90                 | ZF003703 |
| PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY | PETRONAS TUTELA AXLE 300 85W-140                | ZF009901 |
| PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY | PETRONAS TUTELA AXLE 300 80W-90                 | ZF012051 |
| PETRONAS LUBRICANTS INTERNATIONAL SDN BH, KUALA LUMPUR/MY | PETRONAS TUTELA AXLE 300 80W-90                 | ZF009868 |
| PHI OIL GMBH, ST. GEORGEN/AT                              | UNIGEAR GOLD 75W90                              | ZF001203 |
| PHI OIL GMBH, ST. GEORGEN/AT                              | UNIGEAR GOLD 75W90                              | ZF003606 |
| PRISTA OIL HOLDING EAD, RUSE/BG                           | PRISTA EP 90                                    | ZF000378 |
| PRISTA OIL HOLDING EAD, RUSE/BG                           | PRISTA EP 80W-90                                | ZF000380 |
| RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/DE        | RAVENOL HYPOID EPX GETR.-OEL 80W-90 GL5         | ZF001110 |
| RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/DE        | RAVENOL SLG SAE 80W-90                          | ZF005984 |
| RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/DE        | RAVENOL GEAR SUPER SYNTH GSS SAE 75W-90         | ZF006037 |
| RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/DE        | RAVENOL GEAR TRANS SYNTH GTS SAE 75W-90         | ZF006038 |
| RAVENSBERGER SCHMIERSTOFFVERTRIEB GMBH, WERTHER/DE        | RAVENOL TDG SAE 75W-110                         | ZF008351 |
| REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES       | REPSOL CARTAGO EP SAE 90                        | ZF000379 |
| REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES       | REPSOL CARTAGO FE LD 75W90                      | ZF000451 |
| REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES       | REPSOL CARTAGO EP MULTIGRADO SAE 80W90          | ZF000623 |
| REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES       | REPSOL CARTAGO EP MULTIGRADO SAE 85W140         | ZF001018 |
| REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES       | REPSOL CARTAGO LD 80W90                         | ZF001141 |
| REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES       | REPSOL CARTAGO LD 85W140                        | ZF001142 |
| REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES       | REPSOL NAVIGATOR FE LL 75W-90                   | ZF008268 |
| REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES       | REPSOL NAVIGATOR LL 80W-90                      | ZF008269 |
| REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES       | REPSOL NAVIGATOR LL 85W-140                     | ZF008270 |
| REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES       | REPSOL NAVIGATOR HQ GL-5 80W-90                 | ZF008271 |
| REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES       | REPSOL NAVIGATOR HQ GL-5 85W-140                | ZF008272 |
| REPSOL LUBRICANTES Y ESPECIALIDADES, S.A, MADRID/ES       | REPSOL NAVIGATOR HQ GL-5 SAE 90                 | ZF008273 |
| ROLF LUBRICANTS GMBH, LEVERKUSEN/DE                       | ROLF TRANSMISSION S9 AGE 75W-90                 | ZF003626 |

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| OLF LUBRICANTS GMBH, LEVERKUSEN/DE                 | ROLF LUBRICANTS GMBH, LEVERKUSEN/DE                | TRANSMISSION 80W-90 GL5                        | ZF003629 |
| S.I.R.A.L. SPA, NOLA NAPOLI/IT                     | S.I.R.A.L. SPA, NOLA NAPOLI/IT                     | SYN GEAR DIFFERENTIAL OIL 75W-90               | ZF006100 |
| SASOL ENERGY, JOHANNESBURG/ZA                      | SASOL ENERGY, JOHANNESBURG/ZA                      | SHELL SPIRAX S6 AXME 75W-140                   | ZF000702 |
| SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL SPIRAX S3 AS 80W-140                     | ZF000021 |
| SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL SPIRAX S3 AX 85W-140                     | ZF000479 |
| SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL SPIRAX S3 AX 80W-90                      | ZF001232 |
| SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL SPIRAX S3 AD 80W-90                      | ZF001233 |
| SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL SPIRAX S3 AM 80W-90                      | ZF001237 |
| SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL SPIRAX S6 AXME 75W-90                    | ZF001292 |
| SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL SPIRAX HD 80W- 90                        | ZF001262 |
| SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL SPIRAX HD 80W- 90                        | ZF001352 |
| SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL SPIRAX HD 80W- 90                        | ZF001353 |
| SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL SPIRAX S 75W-140                         | ZF001354 |
| SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL SPIRAX S4 AX (80W-90)                    | ZF001380 |
| SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL SPIRAX S4 AX (80W-90)                    | ZF001619 |
| SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL SPIRAX S4 AX (80W-90)                    | ZF001620 |
| SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL SPIRAX S6 ADME 75W- 90                   | ZF001621 |
| SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL SPIRAX S3 AX 85W-140                     | ZF003334 |
| SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL SPIRAX S4 AX (80W-90)                    | ZF008188 |
| SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL SPIRAX S3 AX 80W-90                      | ZF008191 |
| SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL SPIRAX S3 AX 85W-140                     | ZF008187 |
| SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL SPIRAX S3 AX 85W-140                     | ZF009571 |
| SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL SPIRAX S3 AX 85W-140                     | ZF009572 |
| SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL SPIRAX S3 AX 85W-140                     | ZF009573 |
| SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL SPIRAX S3 AX 85W-140                     | ZF009574 |
| SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL SPIRAX S3 AX 85W-140                     | ZF009575 |
| SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL SPIRAX S3 AX 85W-140                     | ZF009576 |
| SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL SPIRAX S3 AX 80W-90                      | ZF010960 |
| SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL SPIRAX S3 AX 80W-90                      | ZF010963 |
| SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL SPIRAX S3 AX 80W-90                      | ZF010962 |
| SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL SPIRAX S3 AX 80W-90                      | ZF010959 |
| SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL SPIRAX S3 AX 80W-90                      | ZF010961 |
| SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL SPIRAX S6 AXME 75W-140                   | ZF004860 |
| SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL SPIRAX MB 90                             | ZF008356 |
| SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL SPIRAX S3 AM 80W-90                      | ZF012279 |
| SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL INTERNATIONAL PETROLEUM COMP. LTD, LONDON/GB | SHELL SPIRAX S6 AXME 75W-90                    | ZF012287 |
| SINGAPORE PETROLEUM COMPANY LIMITED, SINGAPORE/SG  | SINGAPORE PETROLEUM COMPANY LIMITED, SINGAPORE/SG  | GEARLUBE HG M2 SAE 80W-90                      | ZF005976 |
| SINOPEC LUBRICANT CO., LTD., BEIJING/CN            | SINOPEC LUBRICANT CO., LTD., BEIJING/CN            | SINOPEC GREATWALL VT 75W/90                    | ZF000527 |
| SINOPEC LUBRICANT CO., LTD., BEIJING/CN            | SINOPEC LUBRICANT CO., LTD., BEIJING/CN            | SINOPEC MULTIPURPOSE-II GEAR OIL 80W-90        | ZF003332 |
| SINOPEC LUBRICANT CO., LTD., BEIJING/CN            | SINOPEC LUBRICANT CO., LTD., BEIJING/CN            | SINOPEC GREATWALL MULTIPURPOSE GEAR OIL 80W-90 | ZF002267 |
| SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE      | SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE      | SRS WOLIN HYPOID-GETRIEBEÖL 80W-90             | ZF000441 |
| SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE      | SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE      | SRS WOLIN HYPOID-GETRIEBEÖL 85W-140            | ZF000443 |
| SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE      | SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE      | SRS WOLIN HYPOID-GETRIEBEÖL 90                 | ZF000444 |
| SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE      | SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE      | SRS GETRIEBEFLUID SML 80W-90                   | ZF000447 |
| SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE      | SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE      | SRS GETRIEBEFLUID SXL 75W-90                   | ZF001655 |
| SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE      | SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE      | SRS WOLIN HL 5 SAE 80W-90                      | ZF001911 |
| SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE      | SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE      | SRS WOLIN HL 5 SAE 85W-90                      | ZF001912 |
| SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE      | SRS SCHMIERSTOFF VERTRIEB GMBH, SALZBERGEN/DE      | SRS WOLIN HGAV 80W-90                          | ZF010330 |
| SWD LUBRICANTS GMBH & CO.KG, DUISBURG/DE           | SWD LUBRICANTS GMBH & CO.KG, DUISBURG/DE           | SRS WOLIN HL 5 85W-140                         | ZF011907 |
| TEDEX S.A., LUBOCHNIA/PL                           | TEDEX S.A., LUBOCHNIA/PL                           | SVD RHEINOL SYNKROL 5 - SAE 85W140             | ZF004746 |
| TEXSA DO BRASIL LTDA, UMUARAMA/PR/BR               | TEXSA DO BRASIL LTDA, UMUARAMA/PR/BR               | TEDEX SUPER GEAR OIL (TDL) SAE 80W-90          | ZF001342 |
| TEXSA DO BRASIL LTDA, UMUARAMA/PR/BR               | TEXSA DO BRASIL LTDA, UMUARAMA/PR/BR               | TEXSA GEAR MULTI GL-5 85W140                   | ZF001458 |
| TEXSA DO BRASIL LTDA, UMUARAMA/PR/BR               | TEXSA DO BRASIL LTDA, UMUARAMA/PR/BR               | TEXSA GEAR MULTI GL-5 90                       | ZF001941 |
| TEXSA DO BRASIL LTDA, UMUARAMA/PR/BR               | TEXSA DO BRASIL LTDA, UMUARAMA/PR/BR               | TEXSA GEAR MULTI GL-5 80W90                    | ZF001942 |
| TOTALENERGIES LUBRIFIANTS, NANTERRE/FR             | TOTALENERGIES LUBRIFIANTS, NANTERRE/FR             | MONTANA DYNAMIC TRACTOGEAR 5 80W90             | ZF003665 |
| TOTALENERGIES LUBRIFIANTS, NANTERRE/FR             | TOTALENERGIES LUBRIFIANTS, NANTERRE/FR             | ELF TRANSOLF TYPE B 90                         | ZF002069 |
| TOTALENERGIES LUBRIFIANTS, NANTERRE/FR             | TOTALENERGIES LUBRIFIANTS, NANTERRE/FR             | TRAXIUM DUAL 8 FE 80W-90                       | ZF004817 |
| TOTALENERGIES LUBRIFIANTS, NANTERRE/FR             | TOTALENERGIES LUBRIFIANTS, NANTERRE/FR             | TRAXIUM AXLE 7 85W-140                         | ZF006073 |
| TOTALENERGIES LUBRIFIANTS, NANTERRE/FR             | TOTALENERGIES LUBRIFIANTS, NANTERRE/FR             | TRAXIUM DUAL 9 FE 75W-90                       | ZF006074 |
| TOTALENERGIES LUBRIFIANTS, NANTERRE/FR             | TOTALENERGIES LUBRIFIANTS, NANTERRE/FR             | DYNATRANS HD 80W-90                            | ZF008196 |
| TOTALENERGIES LUBRIFIANTS, NANTERRE/FR             | TOTALENERGIES LUBRIFIANTS, NANTERRE/FR             | TRAXIUM AXLE 7 85W-90                          | ZF008210 |
| TOTALENERGIES LUBRIFIANTS, NANTERRE/FR             | TOTALENERGIES LUBRIFIANTS, NANTERRE/FR             | TRAXIUM AXLE 7 85W-90                          | ZF008211 |
| TOTALENERGIES LUBRIFIANTS, NANTERRE/FR             | TOTALENERGIES LUBRIFIANTS, NANTERRE/FR             | TRANSOLF TYPE B 85W-140                        | ZF008219 |
| TOTALENERGIES LUBRIFIANTS, NANTERRE/FR             | TOTALENERGIES LUBRIFIANTS, NANTERRE/FR             | TRAXIUM AXLE 7 80W-90                          | ZF008224 |
| TOTALENERGIES LUBRIFIANTS, NANTERRE/FR             | TOTALENERGIES LUBRIFIANTS, NANTERRE/FR             | TRAXIUM AXLE 7 80W-90                          | ZF008225 |
| TOTALENERGIES LUBRIFIANTS, NANTERRE/FR             | TOTALENERGIES LUBRIFIANTS, NANTERRE/FR             | TRANSOLF TYPE B 80W-90                         | ZF008227 |
| TOTALENERGIES LUBRIFIANTS, NANTERRE/FR             | TOTALENERGIES LUBRIFIANTS, NANTERRE/FR             | TRAXIUM AXLE 9 80W-90                          | ZF008229 |
| TOTALENERGIES LUBRIFIANTS, NANTERRE/FR             | TOTALENERGIES LUBRIFIANTS, NANTERRE/FR             | TRAXIUM AXLE 9 80W-90                          | ZF008230 |
| TOTALENERGIES LUBRIFIANTS, NANTERRE/FR             | TOTALENERGIES LUBRIFIANTS, NANTERRE/FR             | TRANSOLF TYPE B 80W-90                         | ZF008231 |
| TOTALENERGIES LUBRIFIANTS, NANTERRE/FR             | TOTALENERGIES LUBRIFIANTS, NANTERRE/FR             | DYNATRANS HD 80W 90                            | ZF008232 |
| TOTALENERGIES LUBRIFIANTS, NANTERRE/FR             | TOTALENERGIES LUBRIFIANTS, NANTERRE/FR             | TRAXIUM AXLE 8 FE 80W-140                      | ZF008296 |
| TOTALENERGIES LUBRIFIANTS, NANTERRE/FR             | TOTALENERGIES LUBRIFIANTS, NANTERRE/FR             | DYNATRANS HD 85W-140                           | ZF008328 |
| TOTALENERGIES LUBRIFIANTS, NANTERRE/FR             | TOTALENERGIES LUBRIFIANTS, NANTERRE/FR             | TRANSOLF SYN FE 75W-90                         | ZF008393 |
| TOTALENERGIES LUBRIFIANTS, NANTERRE/FR             | TOTALENERGIES LUBRIFIANTS, NANTERRE/FR             | TRAXIUM AXLE 7 80W-90                          | ZF011486 |
| TOTALENERGIES LUBRIFIANTS, NANTERRE/FR             | TOTALENERGIES LUBRIFIANTS, NANTERRE/FR             | TRAXIUM AXLE 7 80W-90                          | ZF011518 |
| UNIL OPAL, SAUMUR/FR                               | UNIL OPAL, SAUMUR/FR                               | GEAR ZF 80W90                                  | ZF000343 |
| UNIL OPAL, SAUMUR/FR                               | UNIL OPAL, SAUMUR/FR                               | GERION TDL 75W90                               | ZF012286 |
| VALVOLINE EUROPE, DORDRECHT/NL                     | VALVOLINE EUROPE, DORDRECHT/NL                     | VALVOLINE HEAVY DUTY TDL PRO 75W-90            | ZF001283 |
| VALVOLINE EUROPE, DORDRECHT/NL                     | VALVOLINE EUROPE, DORDRECHT/NL                     | VALVOLINE HEAVY DUTY AXLE OIL PRO 80W-90 LD    | ZF001837 |
| VALVOLINE EUROPE, DORDRECHT/NL                     | VALVOLINE EUROPE, DORDRECHT/NL                     | VALVOLINE HEAVY DUTY AXLE OIL PRO 75W-140      | ZF001874 |
| VALVOLINE GLOBAL PRODUCTS, LEXINGTON/US            | VALVOLINE GLOBAL PRODUCTS, LEXINGTON/US            | KUBOTA 80W-90 GEAR LUBRICANT HD                | ZF008218 |
| VIBRA ENERGIA S.A., DUQUE DE CAXIAS/BR             | VIBRA ENERGIA S.A., DUQUE DE CAXIAS/BR             | LUBRAX TRM 5 SAE 85W-140                       | ZF001474 |
| VIBRA ENERGIA S.A., DUQUE DE CAXIAS/BR             | VIBRA ENERGIA S.A., DUQUE DE CAXIAS/BR             | LUBRAX TRM 5 SAE 90                            | ZF006105 |
| VIBRA ENERGIA S.A., DUQUE DE CAXIAS/BR             | VIBRA ENERGIA S.A., DUQUE DE CAXIAS/BR             | LUBRAX TRM 5 SAE 85W-140                       | ZF007142 |
| WILHELM HOYER B.V. & CO. KG, VISSSELHÖVEDE/DE      | WILHELM HOYER B.V. & CO. KG, VISSSELHÖVEDE/DE      | HOYER GEAR F-FP 75W-90                         | ZF011993 |
| WILHELM HOYER B.V. & CO. KG, VISSSELHÖVEDE/DE      | WILHELM HOYER B.V. & CO. KG, VISSSELHÖVEDE/DE      | HOYER GEAR M-FS 80W-90                         | ZF011992 |
| WILHELM HOYER B.V. & CO. KG, VISSSELHÖVEDE/DE      | WILHELM HOYER B.V. & CO. KG, VISSSELHÖVEDE/DE      | HOYER GEAR M-HP 80W-90                         | ZF012144 |
| WOLF OIL CORPORATION N.V., HEMIKSEM/BE             | WOLF OIL CORPORATION N.V., HEMIKSEM/BE             | WOLF OFFICIALTECH 75W90 GL 5                   | ZF003525 |
| YACCO SAS, ST PIERRE LES ELBEUF/FR                 | YACCO SAS, ST PIERRE LES ELBEUF/FR                 | BVX 1000 75W-90                                | ZF009462 |
| ZELLER+GMELIN GMBH&CO.KG, EISLINGEN/DE             | ZELLER+GMELIN GMBH&CO.KG, EISLINGEN/DE             | DIVINOL MULTI-AXLE 80W90                       | ZF001684 |

| Fabricante (21A)                                                                    | Denominación del producto (21A)                         | Número de homologación de ZF |
|-------------------------------------------------------------------------------------|---------------------------------------------------------|------------------------------|
| ZELLER+GMELIN GMBH&CO.KG, EISLINGEN/DE<br>ZF FRIEDRICHSHAFEN AG, FRIEDRICHSHAFEN/DE | DIVINOL GETRIEBEÖL ST 80W90<br>ZF ECOFLUID X SAE 80W-90 | ZF012095<br>ZF001266         |

Clase de lubricantes 21C

Aceite para cajas de cambios con aditivos tipo "Limited-Slip"

Clases de viscosidad: SAE 75W-90 / 75W-110 / 75W-140 / 80W-90 / 85W-90 / 90

| Fabricante (21C)                                          | Denominación del producto (21C)                  | Número de homologación de 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                     |

**Clase de lubricantes 21E**  
Aceite universal para ejes y cajas de cambios

| Fabricante (21E)                          | Denominación del producto (21E) | Número de homologación de ZF |
|-------------------------------------------|---------------------------------|------------------------------|
| CHAMPION CHEMICALS N.V., HEMIKSEM/BE      | CHAMPION U.T.T. OIL 80W-140     | ZF012270                     |
| CNH INDUSTRIAL AMERICA LLC, RACINE, WI/US | PREMIUM TRANSAXLE OIL 80W-140   | ZF005941                     |
| VIBRA ENERGIA S.A., DUQUE DE CAXIAS/BR    | LUBRAX UNITRACTOR 10W-30        | ZF010660                     |
| WOLF OIL CORPORATION N.V., HEMIKSEM/BE    | WOLF TRACTOFLUID 80W-140        | ZF012017                     |

**Clase de lubricantes 21F**

Aceite universal para ejes y cajas de cambios

**Fabricante (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  
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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  
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

**Denominación del producto (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

**Número de homologación de ZF**

ZF000509  
ZF001845  
ZF003465  
ZF003719  
ZF003717  
ZF003718  
ZF005975  
ZF001811  
ZF012242  
ZF001161  
ZF002193  
ZF012209  
ZF012219  
ZF012190  
ZF012243  
ZF004739  
ZF000897  
ZF002188  
ZF004801  
ZF000834  
ZF012281  
ZF011782  
ZF011650  
ZF011683  
ZF011716  
ZF011783  
ZF011749  
ZF012290  
ZF011941  
ZF011940  
ZF001687  
ZF010627  
ZF001971  
ZF000040  
ZF000060  
ZF003675  
ZF004764  
ZF005939  
ZF008221  
ZF008383  
ZF011883  
ZF011983  
ZF011982  
ZF011970  
ZF011968  
ZF011969  
ZF011972  
ZF004850  
ZF000661  
ZF002184  
ZF002183  
ZF004829  
ZF012245  
ZF000870  
ZF011963  
ZF000921  
ZF000922  
ZF002219  
ZF012284  
ZF012291  
ZF000400  
ZF000433  
ZF000613  
ZF001223  
ZF012272  
ZF008247  
ZF000177  
ZF001636  
ZF002096  
ZF003538  
ZF003694  
ZF012087  
ZF009445  
ZF001856  
ZF004845  
ZF006093  
ZF004844  
ZF001368  
ZF011939  
ZF001344  
ZF011906  
ZF012274  
ZF001200  
ZF008198  
ZF008241  
ZF006009

## Número de homologación de ZF

ZF012042  
ZF000849  
ZF001351  
ZF000544  
ZF000545  
ZF000551  
ZF000944  
ZF001184  
ZF001409  
ZF001461  
ZF001634  
ZF001838  
ZF002075  
ZF002092  
ZF002093  
ZF002139  
ZF002152  
ZF002343  
ZF004830  
ZF009460  
ZF009459  
ZF010231  
ZF010264  
ZF010000  
ZF000943  
ZF009467  
ZF011937  
ZF011930  
ZF012324  
ZF012308  
ZF012276  
ZF001718  
ZF008204  
ZF003445  
ZF002229  
ZF002230  
ZF000707  
ZF001828  
ZF001131  
ZF008341  
ZF000357  
ZF000358  
ZF000359  
ZF001295  
ZF001613  
ZF003325  
ZF005938  
ZF008286  
ZF001959  
ZF000105  
ZF004916  
ZF003380  
ZF004867  
ZF001346  
ZF002222  
ZF008262  
ZF012180  
ZF012213  
ZF003565  
ZF009470  
ZF002041  
ZF001366  
ZF011996  
ZF012278  
ZF011927

**Clase de lubricantes 21G**  
Aceite superior universal para ejes y cajas de cambios

| Fabricante (21G)                          | Denominación del producto (21G)     | Número de homologación de 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                     |

**Clase de lubricantes 21K**

Aceites de motor

Clase de viscosidad: SAE 10W, 10W-30, 10W-40

según especificación 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, categorías A, B, E

**Nota:**

Pueden emplearse todos los productos comerciales que cumplan las especificaciones arriba indicadas. No hay una lista de productos.

**Clase de lubricantes 21L**

Automatic Transmission Fluid (ATF) de base aceites minerales básicos según la especificación antigua de Dexron IID, IIIF, IIIG ó IIIH de General Motors.

**Nota:**

Pueden emplearse todos los productos comerciales que cumplan las especificaciones arriba indicadas. No hay una lista de productos.

**Clase de lubricantes 21M**

Aceite hidráulico básico de aceite mineral HLP según DIN 51524-2 o aceite hidráulico básico de aceite mineral HVLP, según DIN 51524-3.

Clases de viscosidad: ISO VG 32 / 46 / 68

**Nota:**

Pueden emplearse todos los productos comerciales que cumplan las especificaciones arriba indicadas. No hay una lista de productos.

**También** pueden utilizarse los siguientes productos comerciales:

| Fabricante (21M)                        | Denominación del producto (21M) | Número de homologación de ZF |
|-----------------------------------------|---------------------------------|------------------------------|
| PANOLIN DISTRIBUTION AG, STEINHAUSEN/CH | SHELL PANOLIN S4 HLP SYNTH 32   | ZF012032                     |
| PANOLIN DISTRIBUTION AG, STEINHAUSEN/CH | SHELL PANOLIN S4 HLP SYNTH 46   | ZF012033                     |
| PANOLIN DISTRIBUTION AG, STEINHAUSEN/CH | SHELL PANOLIN S4 HLP SYNTH 68   | ZF012034                     |

**Clase de lubricantes 21N**

Aceite para cajas de cambios con aditivos tipo "Limited-Slip"

Clases de viscosidad: SAE 75W-90 / 75W-110 / 75W-140 / 80W-90 / 85W-90 / 90

**Fabricante (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, VISSELHÖVEDE/DE  
 WOLF OIL CORPORATION N.V., HEMIKSEM/BE  
 WOLF OIL CORPORATION N.V., HEMIKSEM/BE  
 ZELLER+GMELIN GMBH&CO.KG, EISLINGEN/DE

**Denominación del producto (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

**Número de homologación de ZF**

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

**Clase de lubricantes 21Q**

Grasa multiuso según especificación / requerimiento:

- DIN 51825 Clasificación KP2K-30 y/o  
ISO 6743-9 Clasificación ISO-L-XCCEB2 o  
ISO 6743-9 Clasificación ISO-L-XCCHB2
- Aceite básico: hidrocarburos minerales o sintéticos (sin éster)
- Tipo de espesor: Ca, Li (jabón simple, mezclado, complejo)
- Clase de consistencia: NLGI 2
- Aditivos EP
- Límites de aplicación de temperatura mín. -30°C a +120°C

**Nota:**

Pueden emplearse todos los productos comerciales que cumplan las anteriores especificaciones / requisitos.  
No hay una lista de productos.

En caso de temperaturas exteriores superiores a -20 ° C también se pueden utilizar grasas con la siguiente clasificación:

- DIN 51825 Clasificación KP2K-20 y/o
- ISO 6743-9 Clasificación ISO-L-XBCEB2 o
- ISO 6743-9 Clasificación ISO-L-XBCHB2