INTRODUCTION

Welcome to our latest Automotive Industry Lubricants Catalogue.

In the Automotive Industry, where new technological advances are being incorporated by the day, we at Repsol YPF Lubricantes y Especialidades are working to develop a wide range of Lubricants.

For this purpose we are applying our best efforts in terms of resources, research and technology.

Throughout the entire process of production for our lubricants - from design to manufacture-we work to meet the top specifications and the most stringent standards of quality.

This is the only way to assure that the engines and transmissions of those users who choose Repsol for their vehicles will be perfectly well-lubricated.

We are certain that this is the best possible investment that can be made to better an engine’s life and are therefore proud to offer Lubricants providing all of the qualities required for cutting-edge engines and transmissions for safeguarding engines, boosting their functions, enhancing their performance and lengthening their useful life.

We have shown this to be true to date and shall continue to do so in the future, both on a day-to-day basis and at major auto racing competitions, which are our best test benches.
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**Common Rail 5W30**

A synthetic technology lubricant specially designed to meet BMW and Mercedes-Benz long-range requirements, its high quality makes it particularly suitable for today’s latest engine technologies equipped with Common Rail Injection system, variable-admission multivalve, valvetronic, turbo-charged engines and others.

**PROPERTIES**
- Recommended for gasoline or diesel engines, whether or not equipped with turbo-charged engines.
- It allows to reduce fuel consumption due to its viscosity that performs well at both high and low temperatures.
- With top-quality anti-friction additives that provide fuel-saving properties, while keeping best anti-wear protection in high performance engines.
- Low lubricant consumption since it is manufactured with a high-quality synthetic base.
- Long-lasting product which can remarkably lengthen times between oil changes, while keeping the engine clean.
- Excellent viscosity-related performance under cold conditions. Fast lubricant pumping at start-up, reducing film formation time and thus cutting down on wear.
- Not suitable for use in diesel particle filter (DPF) engines.

**QUALITY LEVEL**
- MB 229.5
- BMW LL-01

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**Cosmos 0W40**

Synthetic technology lubricant specially designed to meet the high performance requirements of premium-range vehicle engines (including such well-known makes as Mercedes Benz, Porsche, Audi and others). This oil’s viscosity and cutting-edge components provide exceptional engine protection under the toughest weather, road and operating conditions. Indispensable for top performance in today’s latest-generation vehicles.

**PROPERTIES**
- Exceptional features backed by the most stringent tests bench and running tests.
- High service durability due to its excellent temperature and shear performance.
- Viscosity facilitates cold start-up and minimizes engine wear.
- Ensures totally clean mechanical parts, preventing build-up from reducing engine power.
- Controlled volatility to ensure optimum lubricant consumption.
- Keeps any engine perfectly well-lubricated under any running and driving conditions.

**QUALITY LEVEL**
- VW 502.00/505.00/503.01
- MB 229.3
- PORSCHE
- BMW LL-98
Long Life 50700/50400 5W30

It is a synthetic technology lubricant oil designed to meet the requirements of the most modern gasoline and diesel engines of the VW-AUDI-SEAT-SKODA GROUP. It meets the requirements of the new VW 507.00/504.00 specifications for all VW AG group engines requiring long times between oil changes. Not suitable for use in vehicles with I5 and V10 TDI PD engines. Due to its low ash content, this lubricant ensures the proper functioning of the new emission-reducing technologies such as the diesel particle filter (DPF), thus making a better contribution to environmental conservation than conventional lubricants.

PROPERTIES
- Specially recommended for direct-injection gasoline engines and DPF diesel engines.
- Recommended for vehicles equipped with exhaust fume treatment.
- Specific viscosity that reduces fuel consumption at both high and low temperatures.
- Low lubricant consumption due to its being manufactured with a high-quality synthetic base.
- Lower particle emissions.
- Long-lasting product which can remarkably lengthen times between oil changes, while keeping the engine clean.
- Excellent viscosity-related performance under cold conditions. Fast lubricant pumping at start-up, reducing film formation time and thus cutting down on wear.

QUALITY LEVEL
- VW 507.00/504.00
- ACEA A3/B4

Evolution 5W40

This top-quality synthetic lubricant has been specially designed for vehicles equipped with exhaust fume treatment meeting the strictest BMW and Mercedes Benz requirements for Euro 4 engines. Formulated with low ash content (Mid SAPS) makes it suitable for today’s latest engine technologies and also contributes to preserving the environment by minimizing harmful particle emissions.

PROPERTIES
- Recommended for gasoline and diesel vehicles whether or not equipped with turbo compressors equipped with exhaust fume treatment.
- Optimized formula with high quality anti-friction additives which contributes to fuel-saving and provides proper anti-wear protection for high-performance engines.
- Low fuel consumption due to its synthetic technology and specific viscosity.
- Long-lasting product which can remarkably lengthen times between oil changes while keeping the engine clean.
- Excellent viscosity-related performance under cold conditions. Fast lubricant pumping at start-up, reducing film formation time and thus cutting down on wear.
- Due to its low ash content, this lubricant ensures the proper functioning of the new emission-reducing technologies such as the diesel particle filter (DPF), thus making a better contribution to environmental conservation than conventional lubricants.

QUALITY LEVEL
- API SM/CF
- ACEA A3/B4, C3
- MB 229.31
- PORSCHE
- BMW LL-04
High-quality synthetic technology lubricant oil, specifically designed for use in today’s private vehicle gasoline and diesel engines. Its synthetic components provide a high chemical stability plus extraordinary performance, making for optimum lengths of time between oil changes.

**PROPERTIES**
- Multigrade, shear-resistant, synthetic oil.
- Low viscosity makes it easier to start-up and lubrication at any temperature.
- Friction-reducing viscosity properties plus its low volatility make for optimus consumption.
- Heat stable. Longer degrading than a conventional oil.
- Fast-aerating components, thus minimizing high-rpm foam formation.
- Start-up fluidity to facilitate proper hydraulic valve lifter system functioning.
- Good detergent-dispersibility, ensuring totally clean engine parts.

**QUALITY LEVEL**
- API SL/CF
- ACEA A3/B4
- VW 502.00/505.00
- MB 229.1
Competición 5W40

Synthetic technology lubricant designed based on Repsol race team experience and capable of overcoming the tough, changing conditions on every course. Recommended as the best choice for engines of the most advanced high-performance private vehicles on the market, such as Porsche, Mercedes Benz, Audi, etc. which include this oil among their recommended products. This oil improves power performance in any vehicle, optimizes consumption, minimizes friction and safeguards the engine in the most efficient way possible.

PROPERTIES
- Highly stable, shear-resistant, multigrade, synthetic oil.
- Excellent viscosity-related performance under cold conditions, facilitating start-up and reducing engine wear to a minimum.
- Low volatility, reducing oil consumption.
- Fine detergent-dispersibility, ensuring totally clean engine parts.
- Extraordinary cold and hot performance.
- Perfect fluid oil circulation, preventing key engine part wear.
- Fast-aerating components, thus minimizing high-rpm foam formation.
- High heat - oxidative stability.
- No build-up, turbo stability.
- Its careful design and selected additive and base make it a top in-service durability product.
- Surpasses the most stringent specifications for this type of oils.

QUALITY LEVEL
- API SM/CF
- ACEA A3/B4
- VW 502.00/505.00
- OPEL (GM-LLB025)
- MB 229.3
- BMW LL-01
- PORSCHE

50501 TDI 5W40

Top-Quality synthetic technology lubricant oil designed for use in any top-performance light diesel engine. Its special formulation makes it irreplaceable in the lubrication of VW-AUDI-SEAT-SKODA GROUP TDI engines used in the new unitary injection pump equipment. By keeping its viscosity it reduces key engine part wear at high temperatures under mechanical stress.

PROPERTIES
- Wide temperature range multigrade oil, highly stable, excellent shear resistance.
- Specially designed to protect the valve train and the mechanical system of unitary injectors.
- Prevents build-up in the engine’s input turbo compressor.
- Excellent viscosity-related performance under cold conditions, making start-up easier and reducing wear in the hottest parts of the engine under any running conditions.
- Low-friction oil, for fuel saving and reducing airborne emissions.
- Extremely low volatility for lower lubricant consumption.
- Specifically designed and formulated for TDI engines, particularly for the VW-AUDI-SEAT-SKODA GROUP engines, for which no lengthy times between oil changes are required.

QUALITY LEVEL
- ACEA A3/B4, C3
- VW 505.01/502.00

Automotive Lubricants
Injection 10W40

Lubricant oil which combines high-quality synthetic and mineral components plus advanced additives to make a product specifically designed for use in today’s private vehicle gasoline and diesel engines. Its synthetic components provide high stability, both chemical and against thermal oxidation, and allow for excellent performance and optimum times between oil changes.

PROPERTIES

- Synthetic multigrade, shear-resistant oil.
- Low viscosity for easier start-up and lubrication at any temperature.
- Friction-reducing viscosity properties plus a low volatility, which make for optimum consumption.
- Heat-stable. Longer degrading time than conventional oil.
- Fast-aerating components, thus minimizing high-rpm foam formation.
- Start-up fluidity to make it easier a proper functioning of hydraulic valve lifter system.
- Good detergent-dispersibility, ensuring totally clean engine parts.

QUALITY LEVEL

- API SL/CF
- ACEA A3/B3
- VW 505.00
- MB 229.1
Inyección 15W40

High-quality mineral oil lubricant recommended for use in private vehicle gasoline and diesel engines for driving around town or on the open highway.

PROPERTIES
- Multigrade, shear-stable oil.
- Meets the most stringent international standards of quality.
- Keeps the engine clean, preventing build-up in piston grooves, valves, etc.
- Perfect engine lubrication at high temperatures.
- Easier cold start-up.
- Safeguards the engine against wear out and corrosion.
- Proper viscosity-related features under any weather conditions.
- Compatible with auxiliary systems, such as a catalyst.

QUALITY LEVEL
- API SL/CF
- ACEA A3/B3
- VW 501.01/505.00
- MB 229.1

TDI 15W40


PROPERTIES
- Suitable for any kind of light diesel engines, such as direct fuel injection or indirect fuel injection with pre-chamber.
- Prevents build-up in turbo-charged engines.
- Excellent anti-wear protection at high temperatures.
- Easier cold start-up.
- Very high detergent-dispersibility, keeping carbon particles, mud, build-up, etc. in suspension.
- Excellent resistance to rust and wear.
- Maintains proper pressure at any temperature under all running conditions.

QUALITY LEVEL
- API SL/CF
- ACEA A3/B4
- MB 229.1
- VW 505.00
Super 20W50

Multigrade, all-weather mineral oil lubricant recommended for gasoline engines (whether or not equipped with a catalyst system) and private vehicle diesel engines for driving around town or out on the open highway.

PROPERTIES
- Multigrade oil.
- Keeps engine clean due to its good detergent-dispersant properties.
- Anti-buildup, anti-wear, anti-corrosion.
- Facilitates cold start-up.
- Good oil oxidation protection, preventing engine liner spotting and coating.
- Maintains good viscosity at high temperatures.
- Very low lubricant consumption.
- Meets private vehicle manufacturer’s standards.

QUALITY LEVEL
- API SL/CF
- ACEA A3/B3
- VW 501.01/505.00
- MB 229.1
Highly-refined, non-polluting, marine mineral oil lubricant designed for 2-stroke outboard motors, it surpasses the leading—and even most technologically advanced—manufacturers’ requirements due to its TC W3 quality level. With ash-free additives.

**PROPERTIES**

- Prevents ring sticking.
- Keeps engines and exhaust ports clean.
- Makes start up easier and reduces friction.
- Safeguards against seizing and prevents spark plug fouling.
- High anti-corrosion and anti-rust protection (highly important factor in marine environments) even over long periods of disuse.

**QUALITY LEVEL**

- NMMA TC-W3R
Lubricantes para automoción
Turbo VHPD 5W30

Synthetic technology lubricant for heavy diesel engines meeting the leading manufacturers’ long-range operating requirements. Specially formulated from a synthetic base and high-quality additives, it provides fuel-saving features and allows for long times between oil changes. Suitable for high-performance heavy diesel engines to withstand the toughest running conditions.

PROPERTIES

- Wide temperature range, highly stable multigrade oil with excellent shear resistance, whilst maintaining its design viscosity throughout the full life of the oil.
- Its specific viscosity, 5W30, provides the fluidity required to furnish excellent start-up pumping capabilities under cold conditions and contributes to fuel saving.
- Due to the low volatility of its synthetic bases and minimum consumption, this oil is specially indicated for Euro 4 and prior-generation vehicles provided that the manufacturer’s recommended quality level is ACEA E7, E5 or E4.
- High detergent dispersibility, ensuring totally clean engine parts. Exceptional soot-dispersing capacities, making it especially recommended for engines integrating EGR emission-reduction systems.
- Anti-wear properties to prevent the cylinder liner from scuffing, which is common to high-powered supercharged engines.
- The synthetic base and excellent additives mean longer times between oil changes, ensuring a properly clean engine and contributing to fuel saving.

Turbo UHPD 10W40 MID SAPS

High-quality synthetic technology lubricant recommended for today’s high-performance heavy diesel vehicles. Specially-designed for Euro 4 diesel engines with exhaust fume treatment, for supercharged engines and for long times between oil changes, for Euro 4 or prior-generation engines as per the manufacturer’s recommendations. Due to its low ash content (MID SAPS) this oil prevents the diesel particle filter from clogging, protects the post-treatment catalyst systems and minimizes emissions.

PROPERTIES

- Wide temperature range, highly stable Multigrade oil providing excellent shear resistance.
- Due to the volatility of its synthetic base and to its low consumption, this oil is specially indicated for Euro 4 and prior-generation vehicles provided that the manufacturer recommends quality level ACEA E7, E5 or E4.
- Suitable also for vehicles equipped with post-treatment systems, such as diesel particle filter (DPF), as well as some exhaust gas recirculating (EGR) engines or selective catalyst reduction (SCR) engines as per the manufacturer’s recommendation.
- Prevents the cylinder liner scuffing which is typical of high-powered supercharged engines.
- Its low ash content ensures the proper functioning of the new emission-reducing technologies, such as diesel particle filter (DPF), making a better contribution to environmental conservation than conventional lubricants.
- Its synthetic base and excellent additives allow for long times between oil changes (80,000 – 100,000 Km.) and ensure the engine is properly clean between changes while contributing to fuel saving.

QUALITY LEVEL

- ACEA E7/E5/E4
- MB 228.5
- MAN 3277
- VOLVO VDS-3
- SCANIA LDF
- RENAULT VI RXD
- DAF HP1/2
- MTU TYPE 3
- CUMMINS 20076

- ACEA E6/E4
- MB 228.51/228.5
- MAN 3277 for CRT/3477
- VOLVO VDS-2
- RENAULT VI RXD
- DAF HP2
- MTU TYPE 3
DIESEL

Turbo UHPD 10W40

High-quality latest-generation synthetic lubricant oil. Recommended for turbo-charged diesel engines in long-distance industrial vehicles (TIR) entailing very long times between oil changes and small-mesh oil filters. Product specifically designed for the new Mercedes Benz Actros, MAN F2000 vehicles and for all those requiring an ACEA E4 specification.

PROPERTIES
- Wide temperature range, highly-stable multigrade oil with excellent shear resistance.
- The low volatility of its synthetic base and its low consumption make it specially recommended for vehicles which must meet Euro 2/3 standards on pollutant gas and particle emission reduction, also applicable to Euro 4 in cases where the manufacturer requires the ACEA E4 level.
- Prevents the formation of cold crud and keeps the oil pipes and filter plugs from fouling.
- Cutting-edge oil composition with adequate additives provides extraordinary detergent-dispersant properties, neutralizing the acids formed in new automotive diesel oil combustion.
- Prevents the cylinder liner scuffing typical of high power supercharged engines.
- Contains effective corrosion, oxidation, rust and foam inhibitors.
- Maintains proper pressure under all running conditions.
- The synthetic base and excellent additives provide for long times between oil changes (80,000 – 100,000 Km.)

QUALITY LEVEL
- ACEA E4
- MB 228.5
- MAN 3277
THPD (Top High Performance Diesel) lubricant oil designed to meet the most stringent requirements of the latest-generation diesel engines. Surpasses conventional SHPD features. Product specifically designed for the most modern vehicles requiring ACEA E7 lubricant, API CI-4 being specially indicated for those required to meet the Euro 4 and Euro 3 standards as per the manufacturer’s recommendations.

PROPERTIES

- Multigrade, all-weather oil. Excellent pumping at start-up.
- High detergent-dispersibility, ensuring totally clean engine parts. Exceptional soot-dispersing features, thus being specially recommended for engines equipped with EGR emission reduction systems.
- Selected components to provide high shear resistance, whilst maintaining the design viscosity throughout the full life of the product.
- This oil has been specially designed to comply with the Euro 4 and prior pollutant emission reduction standards, also upgrading the features of conventional heavy diesel oils.
- Depending on the running conditions and engine type, this product allows to lengthen the time between oil changes by following the engine manufacturer’s recommendations.
- The modern formulation provides this oil with excellent anti-wear properties, being specially designed to safeguard the turbo compressor.

QUALITY LEVEL

- ACEA E7/E5
- API CI-4/CH-4/SL
- MB 228.3
- MAN 3275
- RENAULT VI RLD-2
- VOLVO VDS-3
- MACK EO-M PLUS
- GLOBAL DHD-1
- CUMMINS 20078/20077/20072/20071
Super Turbo Diesel 15W40

High-performance, high-quality SHPD lubricant oil recommended for all types of diesel engines, especially for turbo-charged diesel engines in TIR vehicles. Meets the requirements of the engine manufacturers and the international classifications as well as specifications for lengths of time between oil changes.

PROPERTIES

- Highly stable multigrade oil with high shear resistance.
- Specially indicated for vehicles which must meet the Euro 1 and Euro 2 air-polluting gas and particle reduction standards.
- Prevents formation of cold crud and clogging of oil pipes and their filters.
- This oil's dispersancy of crud and other oxidation by-products prevents coating, keeping the pistons clean and preventing the piston segments from sticking.
- Up-to-date detergent-dispersing compounds allow the use of high-sulfur and low-sulfur fuels by neutralizing the acids formed in the diesel fuel combustion process and keeping the carbon particles in suspension.
- Prevents the cylinder liner scuffing, typical of high-powered supercharged engines.
- Contains effective corrosion, oxidation, rust and foam inhibitors.
- Maintains the proper pressure under any running conditions.
- Also suitable for public works, mining, agriculture and cogeneration, whenever a low-consumption lubricant is needed.

Multi G Diesel 15W40

High-quality, high-performance, multigrade mineral oil lubricant. Recommended for diesel engines, naturally-aspirated engines and turbo-charged diesel engines in private cars and industrial vehicles (busses, trucks, public works and agriculture).

PROPERTIES

- Highly-fluid, all-weather, multigrade oil for cold conditions, facilitating start-up and reducing engine metal wear.
- The alkaline reserve (TBN) safeguards the engine against corrosion by neutralizing the acids formed in the combustion of automotive and agricultural fuels with different sulfur contents.
- Maintains the proper pressure under any temperature in all running conditions.
- Recommended for stop & go running.
- Product suitable for normal periods of around-town driving and for public works.
- Its detergency and dispersion feature keeps the combustion by-products in suspension, keeping the cold engine parts clean even for long times between oil changes.
- Prevents the cylinder liner scuffing typical of high-powered supercharged engines.

QUALITY LEVEL

Super Turbo Diesel 15W40

- API CG-4/SJ
- ACEA E3/E2
- MB 228.3
- MAN 3275
- VOLVO VDS-2
- MACK EOL

Multi G Diesel 15W40

- ACEA E2
- API CF-4
- MB 228.1
- MAN 271
- MACK EO-K
- VOLVO VDS
Monograde mineral oil lubricant providing highly detergent properties. Specially recommended for large-scale construction equipment and stationary engines. Also suitable for use in aspirated turbo-charged diesel engines working under moderate or tough conditions with frequent oil changes.

PROPERTIES

- Highly detergent properties remove the combustion by-products from the hottest parts of the engine. Keeps the segment necks clean, ensuring a perfect seal.
- Preserves and lengthens engine life.
- Its alkaline reserve (TBN) safeguards the engine against corrosion by neutralizing the acids formed in the combustion of fuels with different sulfur contents.
- Maintains proper pressure under all running conditions.
- Good anti-wear properties, ensuring minimal engine part wear, engine life and top power.

QUALITY LEVEL

- API CF/CD
- ACEA E2
- MB 228.0
Mixfleet 15W40 and 20W50

Multigrade mineral oil lubricant suitable for aspirated or turbo-charged diesel and gasoline engines running even under the toughest conditions, MIXFLEET’s excellent quality makes it versatile and optimum for use in professional goods and passenger transport vehicles, earthmoving equipment and agricultural vehicles.

PROPERTIES

- Its detergency and dispersibility allows for a clean engine by keeping crud and carbon in suspension and preventing build-up on oil lines, segments, and pistons.
- Multigrade oil, facilitating cold start-up and use in wide range of weather conditions.
- Safeguards against engine corrosion due to its specific formulation.
- Excellent anti-wear properties, minimizing friction.
- Reduces lubricant consumption, particularly 20W50 grade.

QUALITY LEVEL

- API CF-4/CF/SG
- ACEA E2
- MB 228.1
- MAN 270
Lubricantes para automoción
CARTAGO FE LD 75W80

Synthetic technology lubricant for manual gearboxes, specially designed to meet the manual gearbox lubrication requirements set out by the leading vehicle manufacturers. This product is a high-performance lubricant that contributes to fuel saving and longer times between oil changes.

PROPERTIES

- Excellent safeguard against gear and synchronizer wear engrenages et des synchronismes.
- Long-lasting lubricant, allowing for oil changes of up to every 300,000 km.
- High bearing capacity, minimizing loses due to friction and providing top performance.
- Smooth driving during gear-shifting and good performance under extreme running temperatures (as low as -40°C) thanks to its excellent fluidity at low-temperature.

QUALITY LEVEL

- API GL-4
- ZF TE-ML 02D
- MAN 341 Z-3 (ex MAN 341 TL)
- EATON EUROPE
- VOLVO 97305
CARTAGO Tracción Integral 75W90

Multigrade, heat-stable, synthetic lubricant oil recommended for autoblocking transmissions or limited slipping differential assemblies (LSD) operating under extreme pressure conditions, shock stress and slipping which is inherent to racing vehicles.

PROPERTIES
- Withstands transient high temperatures and loads well.
- Excellent wear resistance.
- Excellent anti-rust and anti-foam properties.
- Good low-temperature fluidity and excellent high-temperature viscosity.
- Keeps gears clean, thus cutting maintenance costs.
- Specially equipped to effectively safeguard contact surfaces against scratching.
- High-quality synthetic product which allows for longer times between oil changes and reduces differential noise.

PROPERTIES
- Highly versatile product suitable for a wide range of heavy vehicle gear applications, as performs well when lubricating differentials or gearboxes and transmissions.
- High stability against oxidation, even under tough conditions, for a longer-lasting product and longer times between oil changes.
- Excellent fluidity at low-temperature, which contributes to fuel saving whilst offering the viscosity-related properties required for perfect lubrication.
- High anti-wear protection, improving mechanism durability.

QUALITY LEVEL
- API GL-5/LSD
- MIL-PRF-2105-E
- MACK GO-J

CARTAGO FE LD 75W90

Synthetic technology lubricant oil designed mainly for differentials as well as some vehicle gearboxes and transmissions. Provides unbeatable performance in rear axles and transmissions for heavy vehicle due to its capacity to withstand heavy loads and its exceptional fluidity under low-temperature conditions. Contributes to fuel saving and longer times between oil changes.

QUALITY LEVEL
- API GL-4/GL-5
- MIL-PRF-2105E
- MAN 3343 S (ex MAN 3343 SL)
- SCANIA STO 1:0
- ZF TE-ML 02B/05B/07A/12B/16F/17B and 19C
- MACK GO-J
CARTAGO EP 75W90

Multigrade lubricant oil of average Extreme Pressure. With high thermal stability, it is recommended for the lubrication of manual gear boxes and transmission mechanisms requiring the API GL-4 quality level. It can also be used in public works equipment.

PROPERTIES
- Excellent performance when supporting loads and momentary high temperatures.
- Excellent thermal and aging resistance.
- Excellent anti-rust and anti-foam properties.
- Easier gear-shifting and synchronization at low-temperature.
- Shear-stability to ensure that viscosities will be maintained throughout use.

QUALITY LEVEL
- API GL-4
- MIL-L- 2105
CARTAGO Multigrado EP 80W90 and 85W140

Extreme-pressure multigrade lubricant oil recommended for use in vehicle differentials and hypoid or helicoid transmission assemblies, as well as in manual gearboxes and transmission mechanisms requiring the API GL-4 quality level.

PROPERTIES
- Excellent ability to withstand transient high temperatures and loads. Extreme Pressure (EP).
- Highly resistant to wear.
- Excellent anti-rust and anti-foam properties.
- Facilitates low-temperature lubrication.
- Multigrade, excellent safeguarding under harsh temperature and tough running conditions.
- Better response to manual gearbox synchronisms than a monograde oil due to less gear tooth friction, especially at low temperatures.
- Good anti-wear properties, thus lengthening the life of the transmission.
- Water-resistant.

QUALITY LEVEL
- API GL-5
- MIL-L-2105-D
- MB 235.0 (80W90)
- ZF TE-ML 05A/07A/16B and 19B for 80W90
- ZF TE-ML 05A/16C for 85W140

CARTAGO Autoblocante EP 80W90

Extreme-pressure multigrade lubricant oil recommended for use in four-wheel-drive SUV autoblocking differentials and rear-axles requiring fluids with LSD (limited slipping differential) properties.

PROPERTIES
- Multigrade properties, facilitating low-temperature lubrication.
- Excellent ability to withstand transient high temperatures and loads. Tough Pressure (EP).
- Highly resistant to wear, superb anti-rust, foam and shear resistance.
- Good high-speed, high-torque performance, for excellent noise reduction.
- Includes additives which meet LS differential requirements.

QUALITY LEVEL
- API GL-5
- MIL-L-2105-D
- LSD
- NISSAN SPEC
GEAR BOXES-TRANSMISSIONS

CARTAGO EP 90

Extreme-pressure monograde lubricant oil recommended for the use in vehicle differentials/rear-axles and in hypoid or helical transmission assemblies. Also suitable for the use in gearboxes and other gears operating under tough running conditions.

PROPERTIES

- Very good capacity to withstand transient high temperatures and loads. Extreme Pressure (EP).
- Excellent resistance to wear.
- Superb anti-rust and anti-foam properties.
- Contributes to noise elimination.
- Good anti-wear properties, thus lengthening the life of the transmission.
- Water resistant.

QUALITY LEVEL

- API GL-5
- MB 235.0
- ZF TE-ML 05A/07A/16C/17B and 198

Transmisión TO-4: SAE 10W, 30 and 50

Lubricant oil specially formulated to meet the CATERPILLAR, ALLISON and KOMATSU specification requirements, for use in servo transmissions, clutches and brakes as well as end drives, crown gears and differentials (depending upon SAE grade). Also suitable for use in some hydraulic applications, as for SAE 10W grade.

PROPERTIES

- Prevents transmission slippage.
- Excellent load-bearing and anti-wear properties.
- Lengthens clutch disc life and smoothes braking.
- Provides a better frictional and starting drag for the machines.
- Gasket-compatible.
- Superb anti-corrosive properties.
- Not recommended for the use in engines.

QUALITY LEVEL

- CATERPILLAR TO-4
- ALLISON C-4
- KOMATSU
- ZF TE-ML 03C and 07F for SAE 30
Matic Sintético

Multi-purpose synthetic technology lubricant oil for automatic, hydraulic and power steering vehicle transmissions. This fluid has been designed to meet the stringent requirements of long times between oil changes set by VOITH 55.6336 (ex G-1363).

PROPERTIES

- Oil for automatic industrial vehicle and bus gearboxes requiring long times between oil changes or tough running conditions.
- Oil for ZF Ecomat and VOITH DIWA gearboxes.
- Suitable for private vehicles requiring this type of fluid in certain manual and automatic gearboxes and servo steering.
- Meets the ZF, FORD, MERCEDES, VOITH and other manufacturers’ requirements.
- High resistance to oxidation, which lengthens its life in certain applications.
- Its viscosity profile and performance from the friction-related standpoint under different running conditions optimizes the running reliability and durability of the lubricated equipment.

QUALITY LEVEL

- DEXRON II E
- VOITH 556336 (ex G-1363)
- ZF TE-ML 040/D/09X/14B and 16L
- MB 236.8
Matic III

Synthetic technology lubricant oil specially designed for automatic transmissions and power steering of vehicles requiring a fluid meeting GM Dexron III specifications. It is suitable for use in light or heavy vehicles and in public works equipment.

**PROPERTIES**
- Improves running performance and durability over former automatic transmission fluids (ATF).
- Suitable for all GM automatic gear boxes specifying a Dexron lubricant types I, II and III, being compatible with the two previous ones and useable for oil refills or complete oil changes, as well as for those by other manufacturers which meet the same requirements.
- Also meets the MAN, MERCEDES, VOITH and other manufacturer’s requirements.
- Ensures smooth, silent operation.
- Energy-saving due to its suitable friction and viscosity profile.

**QUALITY LEVEL**
- GM DEXRON III
- VOITH 556336 (Ex G-1363)
- ZF TE-ML 04D/14B and 16L
- ALLISON C-4
Matic ATF

Lubricant oil specially recommended for automatic and power steering vehicle transmissions, although it can also be used in industrial applications such as complex hydraulic circuits, torque variators, etc.

PROPERTIES
- Smooth, silent automatic transmission operation.
- Excellent thermal and oxidation resistance.
- High viscosity index.
- Long life.
- Approved by the leading gearbox and transmission manufacturers.

QUALITY LEVEL
- GM DEXRON II D
- MB 236.7
- VOITH 556335 (ex G-607)
- ZF TE-ML 03D/04D/11A/14A and 17C
- MAN 339 type Z1
ATF Matic Diafluid

Synthetic technology lubricant oil for automatic transmissions and servo-steering, specially designed to cover the needs of MITSUBISHI vehicles and others requiring a product with quality level in keeping with Japanese standard JASO M315-2003 1A.

PROPERTIES
- Contains friction enhancers specifically designed for the aforementioned applications which ensures a smooth functioning of transmission.
- Highly oxidation-stable, to lengthen the life of the product in use.
- Minimizes transmission wear, thus optimizing transmission life.
- Excellent safeguard against rust and corrosion.
- Very smooth servo steering.

QUALITY LEVEL
- MITSUBISHI SP-III
- JASO M315-2003 1A
**ATF 3**

Synthetic lubricant oil, specially designed for use in a variety of automatic heavy and light vehicle transmissions and even in public works and mining equipment. It can also be used in power steering and hydraulic circuits with special requirements.

**PROPERTIES**
- A fluid for “universal” automatic transmission.
- Incorporating a versatile, balanced set of friction enhancers.
- Excellent oxidation stability.
- Minimizes transmission wear, thus optimizing transmission life.
- Excellent safeguard against rust and corrosion.
- Very smooth hydraulic power steering.
- Excellent compatibility with elastomers and gaskets.

**QUALITY LEVEL**
- DEXRON III-G
- MB 236.1/236.5
- MAN 339 type Z-1 and V-1
- VOITH 556335 (ex G-607)
- ZF TE-ML 02F/03D/04D/11B/14A and 17C
- VOLVO 97341-12

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**Hidráulico C3 EP 32 and 46**

Repsol Hidráulico C-3 EP oils are hydraulic transmission fluids manufactured from highly-refined paraffin bases and special additives to meet GM Allison C-3 fluid requirements. Recommended for hydraulic transmissions in trucks, buses and large-scale construction and mining equipment subject to severe operating conditions requiring the use of this type of fluids and meeting the aforementioned Allison, C-3 specification. Also suitable for use in conventional hydraulic circuits.

**PROPERTIES**
- Superb anti-oxidation properties.
- Good anti-foaming stability.
- Excellent resistance to wear and silt formation.
- High viscosity index.
- Low freezing point.
- Does not modify rubber compounds.
- Good low-temperature viscosity performance.

**QUALITY LEVEL**
- GM ALLISON type C-3
Others Engines
AGRICULTURE
Others Engines

Auto Gas 15W40

Mineral oil lubricant recommended for the use in non-stationary engines running on compressed natural gas (CNG) such as propane and butane (GLP). Ash content suitable for operating this type of engines. For application in gas-feed public transport vehicle fleets (taxicabs and busses).

PROPERTIES

- Its detergent-dispersibility keeps the engine clean.
- Good rust and nitrating resistance.
- Long life.
- Facilitates cold start-up.
- Maintains proper pressure at any temperature under any working condition.
- Excellent protection at high temperatures.
- Keeps the spark plugs clean and prevents preignition.
- Contributes to the protection of the environment by preventing air-polluting emissions.

QUALITY LEVEL

- API CF-4/SG
- MB 228.1
- MAN 3271

Serie 3 especial FC-40 N

Zinc-free mineral lubricant oil, specially designed for use in silver bearing-equipped diesel engines such as those used in locomotives and stationary generators.

PROPERTIES

- Meeting the same requirements as a Series 3 lubricant, it also prevents damage to ball-bearings made of any alloy containing silver.
- Additives ensure internal engine parts are kept clean, especially the piston segment area and prevents friction wear and lengthening engine life.
- Alkaline reserves (TBN) suitable for using any kind of diesel oils.
- Cutting-edge fourth-generation oil technology.

QUALITY LEVEL

- EMD 6D 60
- GE B30-7A
Ceres S.T.O.U. 15W40

Universal, multi-purpose, multigrade tractor lubricant oil. Designed for use in internal combustion engines (including turbofeed) and in transmissions, end drives, wet brakes, clutches and hydraulic systems for agriculture machinery. General multiple-purpose lubricant oil.

PROPERTIES
- Easy maintenance, only one oil for the entire tractor.
- Excellent anti-noise features in wet brakes.
- Additives making it useable in natural aspiration and turbofeed diesel engines.
- Good hydraulic system performance for farm implement movement.
- Anti-wear protection to prevent scratching and gear wear-down.
- Used in power steering, synchronisms and transmissions.
- Approved by the leading tractor manufacturers

QUALITY LEVEL
- API CE/SA
- MB 227.1
- JOHN DEERE J-27
- FORD M2C 1598/C
- ZF TE-ML 06B/07B
- ALLISON C-4
- CARTEPILLAR TO-2
- MASSEY FERGUSON M-1139 and M-1141

Orion U.T.T.O.

Universal tractor transmission oil (U.T.T.O.). Its specific formulation makes it suitable for use in gear boxes, conical differential assemblies, power take-offs, hydraulic systems, wet brakes (sinter or compound) and clutches meeting the aforementioned Allison C-3 specification. Also suitable for use in conventional hydraulic circuits.

PROPERTIES
- Excellent anti-wear protection and load-bearing capacity, even under tough operating conditions.
- Good rust resistance and gasket material compatibility.
- Friction properties designed to eliminate the wet brake grinding and power take-off mechanism slippage.
- Due to its versatility, this oil is suitable for use in a wide range of agricultural machinery.
- Approved by the leading tractor manufacturers.
- Not suitable for use as engine oil.

QUALITY LEVEL
- API GL-4/SAE 80W
- FORD M2C 134D
- JOHN DEERE J-20C
- MASSEY FERGUSON M-1141
- CATERPILLAR TO-2
- ALLISON C-4
- ZF TE-ML 05F
- CASE MS 1206 and 1207
<table>
<thead>
<tr>
<th>REPSOL ELITE</th>
<th>SAE</th>
<th>API</th>
<th>ACEA</th>
<th>OTHERS</th>
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<td>MB 229.3, BMW LL-98, PORSCHE, VW 502.00/505.00/503.01</td>
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<td>A3/B4</td>
<td>VW 507.00/504.00</td>
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<td>SM/CF</td>
<td>A3/B4,C3</td>
<td>MB 229.31, BMW LL-04, PORSCHE</td>
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<td>SM/CF</td>
<td>A3/B4</td>
<td>MB 229.3, BMW LL-01, PORSCHE, VW 502.00/505.00, OPEL (GM-LLB025)</td>
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<tr>
<td>50501 TDI 5W40</td>
<td>5W40</td>
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<td>A3/B4,C3</td>
<td>VW 505.01/502.00</td>
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<tr>
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<td>SL/CF</td>
<td>A3/B4</td>
<td>MB 229.1, VW 502.00/505.00</td>
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<tr>
<td>INYECCIÓN 15W40</td>
<td>15W40</td>
<td>SL/CF</td>
<td>A3/B3</td>
<td>MB 229.1, VW 505.00</td>
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<tr>
<td>TDI 15W40</td>
<td>15W40</td>
<td>SL/CF</td>
<td>A3/B4</td>
<td>MB 229.1, VW 505.00</td>
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<tr>
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<td>20W50</td>
<td>SL/CF</td>
<td>A3/B3</td>
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<td>NMMA TC-W3R</td>
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<tr>
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<th>OTHERS</th>
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<tr>
<td>TURBO VHPD 5W30</td>
<td>5W30</td>
<td>-</td>
<td>E7/E5/E4</td>
<td>MB 228.5, MAN 3277, Volvo VDS-3, Scania LDF, Renault VI RXD, DAF HP1/2, MTU type 3, Cummins 20076</td>
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<tr>
<td>TURBO UHPD 10W40 MID SAPS</td>
<td>10W40</td>
<td>-</td>
<td>E6/E4</td>
<td>MB 228.5/228.5, Volvo VDS-2, MAN 3277 for CRT/3477, Renault VI RXD, DAF HP2, MTU type 3</td>
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<tr>
<td>TURBO UHPD 10W40</td>
<td>10W40</td>
<td>-</td>
<td>E4</td>
<td>MB 228.5, MAN 3277</td>
</tr>
<tr>
<td>SUPER TURBO DIESEL 15W40</td>
<td>15W40</td>
<td>CG-4/SJ</td>
<td>E3/E2</td>
<td>MB 228.3, MAN 3275, Volvo VDS-2, Mack EOL</td>
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<tr>
<td>MULTI G DIESEL 15W40</td>
<td>15W40</td>
<td>CF-4</td>
<td>E2</td>
<td>MB 228.1, MAN 271, Mack EO-K, Volvo VDS</td>
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<tr>
<td>SERIE 3 SAE 10W, 30 and 40</td>
<td>30 and 40</td>
<td>CF/CD</td>
<td>E2</td>
<td>MB 228.0</td>
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<tr>
<td>MIXFLEET 15W40 and 20W50</td>
<td>15W40 and 20W50</td>
<td>CF-/CF/SG</td>
<td>E2</td>
<td>MB 228.1, MAN 270</td>
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The quality levels stated in this Table will be effective as of publication of this catalogue. November 2007
### QUALITY SPECIFICATIONS

#### GEAR BOXES-TRANSMISSIONS

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<tr>
<th>Gear Box Type</th>
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<tr>
<td>CARTAGO CAJAS FE LD 75W80</td>
<td>75W80</td>
<td>GL-4</td>
<td>ZF TE-ML 02D, MAN 341 tipo Z-3 (ex MAN 341 TL), EATON Europe, VOLVO 97305</td>
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<tr>
<td>CARTAGO FE LD 75W90</td>
<td>75W90</td>
<td>GL-4/GL-5</td>
<td>MIL-PRF-2105-E, MAN 3343 tipo S (ex MAN 3343 SL), SCANIA STO 1.0, MACK GO-J, ZF TE-ML 02B/05B/07A/12B/16F/17B and 19C</td>
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<td>GL-5/LSD</td>
<td>MIL-PRF-2105-E, MACK GO-J</td>
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<td>75W90</td>
<td>GL-5</td>
<td>MIL-L-2105</td>
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<tr>
<td>CARTAGO MULTIGRADO EP 80W90 and 85W140</td>
<td>80W90/85W140</td>
<td>GL-5</td>
<td>MB 235.0 (80W90), ZF TE-ML 05A and 16C for 85W140, ZF TE-ML 05A/07A and 19B for 80W90, MIL-L 2105-D</td>
</tr>
<tr>
<td>CARTAGO AUTOBLOCANTE EP 80W90</td>
<td>80W90</td>
<td>GL-5</td>
<td>MIL-L-2105-D, LSD, NISSAN SPEC</td>
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<tr>
<td>CARTAGO EP 90</td>
<td>90</td>
<td>GL-5</td>
<td>MB 235.0, ZF TE-ML 05A/07A/16C/17B and 19B</td>
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<tr>
<td>TRANSMISIÓN TO-4 SAE 10W, SAE 30 and SAE 50</td>
<td>10W, 30 and 50</td>
<td>-</td>
<td>CATERPILLAR TO-4, ALLISON C-4, KOMATSU, ZF TE-ML 03C and 07F for SAE 30</td>
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<tr>
<td>MÁTIC SINTÉTICO</td>
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<td>GM Dexron II E, VOITH 556336 (ex G-1363), MB 236.8, ZF TE-ML 04D/09X/14B and 16L</td>
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<tr>
<td>MÁTIC III</td>
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<td>GM Dexron III, VOITH 556336 (ex G-1363), ZF TE-ML 04D/14B and 16L, ALLISON C-4</td>
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<tr>
<td>MÁTIC ATF</td>
<td>-</td>
<td>-</td>
<td>GM Dexron II D, MB 236.7, VOITH 556335 (ex G-607) MAN 339 type Z-1, ZF TE-ML 03D/04D/11A/14A and 17C</td>
</tr>
<tr>
<td>ATF MÁTIC DIAFLUID</td>
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<td>MITSUBISHI SP-III, JASO M315-20031A</td>
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<tr>
<td>ATF 3</td>
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<td>-</td>
<td>Dexron III-G, MB 236.1/236.5, MAN 339 type Z-1 and V-1, VOITH 556335 (ex G-607), VOLVO 97341-12, ZF TE-ML 02F/03D/04D/11B/14A and 17C,</td>
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<tr>
<td>HIDRÁULICO C3 EP 32 and 46</td>
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<td>-</td>
<td>GM ALLISON type C-3</td>
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#### OTHERS ENGINES

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<tr>
<td>AUTO GAS 15W40</td>
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<td>CF-4/SG</td>
<td>MB 228.1, MAN 3271</td>
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<tr>
<td>SERIE 3 ESPECIAL FC 40-N</td>
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<td>EMD 6D 60, GE B30-7A</td>
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#### AGRICULTURE

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<th>Agriculture</th>
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<tr>
<td>ORION U.T.T.O.</td>
<td>80W, 10W30</td>
<td>GL-4/SAE 80W</td>
<td>FORD M2C 134D, JOHN DEERE J-20C, MASSEY FERGUSON M-1141, CATERPILLAR TO-2, ALLISON C-4, ZF TE-ML 05F, CASE MS 1206 and 1207</td>
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</table>
### REPSOL ELITE

<table>
<thead>
<tr>
<th>Product</th>
<th>Bottle</th>
<th>Pail / Drum</th>
<th>Container</th>
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</thead>
<tbody>
<tr>
<td>COSMOS 0W40</td>
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<tr>
<td>COMMON RAIL 5W30</td>
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<tr>
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<td>4 L 1 L</td>
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<td>EVOLUTION 5W40</td>
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<tr>
<td>COMPETICION 5W40</td>
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<td>185 Kg</td>
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### REPSOL DIESEL

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### GEAR BOXES-TRANSMISSIONS

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<td>TRANSMISIÓN TO-4: SAE 30 and SAE 50</td>
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</tr>
</tbody>
</table>

### OTHERS ENGINES

<table>
<thead>
<tr>
<th>Product</th>
<th>Bottle</th>
<th>Pail / Drum</th>
<th>Container</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTO GAS 15W40</td>
<td>-</td>
<td>- 185 Kg</td>
<td>-</td>
</tr>
<tr>
<td>SERIE 3 ESPECIAL FC 40-N</td>
<td>-</td>
<td>- 185 Kg</td>
<td>-</td>
</tr>
</tbody>
</table>

### AGRICULTURE

<table>
<thead>
<tr>
<th>Product</th>
<th>Bottle</th>
<th>Pail / Drum</th>
<th>Container</th>
</tr>
</thead>
<tbody>
<tr>
<td>CERES S.T.O.U. 15W40</td>
<td>5 L</td>
<td>18 Kg 25 L</td>
<td>185 Kg</td>
</tr>
<tr>
<td>ORION U.T.T.O.</td>
<td>5 L</td>
<td>18 Kg 45 Kg</td>
<td>185 Kg</td>
</tr>
</tbody>
</table>

The 45 kg and 25 l containers will soon be replaced by 18 kg containers.