



**QALCO**  
Energy®  
للاطاقة

# SPECTRO

Excellence In Motion



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# ABOUT US

Qatar Lubricants Company (QALCO Energy®), a subsidiary of Al Alfia Holding, is a pioneering Qatari enterprise operating the country's first lubricants blending and grease manufacturing plant in Mesaieed Industrial City. We specialize in the development, blending, and distribution of high-performance lubricants, greases, and specialty fluids for automotive, industrial, marine, and heavy-duty applications.

Our state-of-the-art production facilities are equipped with automated systems and advanced blending technology, ensuring product consistency, batch traceability, and adherence to international standards such as SAE, API, and ASTM. All products undergo rigorous quality testing in our in-house laboratory.

In strategic collaboration with ENEOS, Japan's No. 1 oil company, QALCO Energy® blends Toyota, Lexus, and Nissan Genuine Motor Oils for the Qatar market. This partnership reflects our commitment to technical excellence, OEM-grade quality, and national industrial development. We proudly contribute to Qatar's growth by offering reliable, world-class lubrication solutions rooted in trust and performance.

## Our Vision

"To be the most trusted regional leader in lubricants, chemicals, and logistics - delivering sustainable, innovative, and world-class solutions that drive industrial growth and support Qatar's Vision 2030."

## Our Mission

"Our mission is to provide premium lubricants, chemicals blending services and integrated logistics solutions with uncompromising quality, safety, and reliability. We are committed to innovation, operational excellence, and customer-focused solutions that empower industries, foster sustainable progress, and build lasting partnerships across Qatar and beyond."

## Our Commitment

"Our commitment goes beyond products and services; it is about building trust, ensuring reliability, and creating value. We pledge to deliver world-class lubricants, specialty chemicals, and logistics solutions that are safe, efficient, and sustainable. With every blend, batch, and shipment, we remain dedicated to quality, innovation, and customer satisfaction."

# ABOUT LUBRICANTS

## The Science Behind Lubrication

Lubrication is far more than just reducing friction; it's the science of ensuring motion with protection. A properly formulated lubricant forms a microscopic film that separates moving surfaces, preventing metal-to-metal contact and minimizing heat generation. This film also acts as a barrier against wear, rust, and oxidation, allowing components to perform smoothly and efficiently even under severe operating conditions.

Modern advancements in tribology (the study of friction, wear, and lubrication) have enabled lubricants to deliver superior performance through precision-engineered molecular structures. These formulations help machinery achieve greater reliability, reduce power losses, and enhance fuel economy, resulting in measurable gains in both productivity and sustainability.

## Advancing Performance Through Research

Innovation drives the continuous evolution of lubricant technology. Through ongoing testing, field trials, and collaboration with OEMs and additive technology partners, we stay aligned with global performance standards. Each formulation undergoes rigorous laboratory validation to ensure viscosity stability, thermal resistance, and long-term durability.

Lubricants manufactured by QALCO Energy<sup>®</sup> are produced using high-quality base oils and performance-enhancing additive systems that meet the leading specifications of SAE, API, ACEA, and OEM standards. With increasing demand for fuel efficiency, environmental compliance, and extended drain intervals, our formulations continue to advance through research and innovation.

Selecting the right lubricant is key to maximizing equipment life, minimizing maintenance costs, and ensuring operational safety and compliance. At QALCO Energy<sup>®</sup>, we manufacture and deliver advanced lubrication solutions that meet the diverse requirements of every application from everyday vehicles to industrial giants.

# UNDERSTANDING LUBRICANT STANDARDS

Choosing the right lubricant isn't just about brand - it's about knowing the global standards printed on every label. These ensure performance, safety, and compatibility across vehicles and equipment. Here are the main ones to know:

## SAE Viscosity Grade (SAE International)

Indicates oil thickness (viscosity) at different temperatures.

### Example: SAE 5W-30

- ⚡ "5W" = Winter rating; ensures smooth cold starts and lubrication in low temps.
- ⚡ "30" = Viscosity at operating temperature, ensuring film strength under heat. Multi-grades (e.g. 10W-40) are more versatile than single-grades.

**The right SAE grade ensures smooth start-ups, reduced wear, and stable protection in all climates.**



## API Specification

Defines performance for engine oils via the API "donut/starburst" mark.

- ⚡ For petrol engines: API SN, SP, SQ - offer deposit control, oxidation resistance, and fuel efficiency.
- ⚡ For diesel engines: API CI-4, CJ-4, CK-4 - provide soot handling, wear control, and piston cleanliness.

**A higher API grade reflects newer technology and better protection.**



## ACEA Rating

Focuses on engine cleanliness, fuel economy, and emission protection.

- ⚡ **A/B** – Petrol & light-duty diesel.
- ⚡ **C** – Low-SAPS oils for vehicles with DPFs or catalytic converters.
- ⚡ **E** – Heavy-duty diesel engines.

**Ensures compliance with European emission and durability**



## ILSAC

Joint U.S.–Japan spec for engine oils.

- ⚡ **Current:** GF-6A / GF-6B – focus on fuel economy, wear protection, and emission system safety.

**Ideal for modern U.S. & Japanese vehicles for efficiency and long engine life.**



## ISO Standards

Used for hydraulic, gear, and industrial oils.

- ⚡ **Example:** ISO VG 32 / 46 / 68 – number = viscosity at 40°C.

Higher numbers = thicker oil for heavier loads.

**Ensures right fluidity, pumpability, and film**



## NLGI

Indicate grease consistency (soft to stiff).

- ⚡ 000–0: Fluid for gearboxes
- ⚡ 1: Semi-fluid for centralized systems
- ⚡ 2: Standard multipurpose
- ⚡ 3+: Stiff for high-load use

**Proper NLGI grade means stable lubrication, less leakage, and longer life.**



**Understanding these standards ensures you always choose the right lubricant for lasting engine and equipment protection.**

# SMART SHAPE, SEAMLESS PERFORMANCE

At QALCO Energy®, we understand that great packaging goes beyond appearance it enhances performance, safety, and user experience. That's why we've reimagined our lubricant can design to bring you smarter features, cleaner pouring, and improved handling. Built with durability, sustainability, and practicality in mind, our new packaging reflects our ongoing commitment to innovation and customer satisfaction.

## Comfortable grip for better handling

Our redesigned can features a contoured grip, making it easier and safer to handle especially during pouring or transport, even with gloves on.

## Smarter, cleaner pouring

The new spout design offers controlled flow and precision, reducing spillage and waste while ensuring a smooth, mess-free application.

## Stackable and space-saving

The improved and slimmer shape allows for efficient stacking and storage, optimizing shelf and warehouse space without compromising stability.

## Durable and impact-resistant

Built with reinforced walls, the new can offers superior resistance to deformation and damage during handling and shipping.



# LABEL INTERPRETATION



# UNDERSTANDING OUR PACKAGING

At QALCO Energy®, each can color is intentionally selected to represent a specific product category; helping customers, retailers, and technicians to quickly identify the right lubricant for the right application.



## GOLD CAN

### Passenger Car Motor Oils (PCMO)

Refined for performance used for high-quality petrol engine oils that deliver fuel efficiency, engine cleanliness, and smooth driving.



## BLACK CAN

### Diesel Engine Oils (DEO)

Built for heavy-duty represents power, durability, and long-drain protection for high-load diesel engines in commercial and fleet vehicles.



## GREY CAN

### Industrial & Ancillary Oils

Engineered for versatility covers hydraulic oils, gear oils, flushing oils, and specialty automotive and industrial applications.

# UNDERSTANDING OUR LABEL COLOR CODE



## Signature Label Design for Petrol Engine Oils

Premium black with radiant gold streaks symbolizing refined performance, efficiency, and modern engine technology.

## Signature Label Design for Diesel Engine Oils

Bold black with striking blue streaks symbolizing strength, endurance, and long-haul engine protection.



## Signature Label Design for Industrial & Ancillary Oils

A refined black-and-silver theme represents technical precision, reliability, and multi-purpose industrial performance.

## Signature Label Design for Antifreeze Coolants

Cool green streaks over a dark base symbolizing thermal control, engine protection, and long-lasting performance.



## Signature Label Design for Extended Life Coolants

A deep pinkish-red gradient with sleek highlights representing long-lasting protection, and premium cooling performance.

# SUB-BRAND CLASSIFICATION

At Qalco Energy®, we have streamlined our extensive product portfolio under five distinct sub-brands, each derived from a letter in our company name. This system enhances product identity, simplifies categorization, and supports brand consistency across markets.

# Q

**QUAD**

## Diesel Engine Oils

Includes high-performance diesel engine oils for on-road, off-road, locomotive and marine use, ensuring durability.

# A

**ALFA**

## Petrol Engine Oils

Includes high-performance petrol engine oils and outboard motor oils designed for a wide range of gasoline engines.

# L

**LUMI**

## Greases

Includes high-performance general-purpose and bearing greases providing superior protection in use.

# C

**CORE**

## Industrial Lubricants

Includes hydraulic, gear, turbine, compressor, and specialty oils for a wide range of industrial uses.

# O

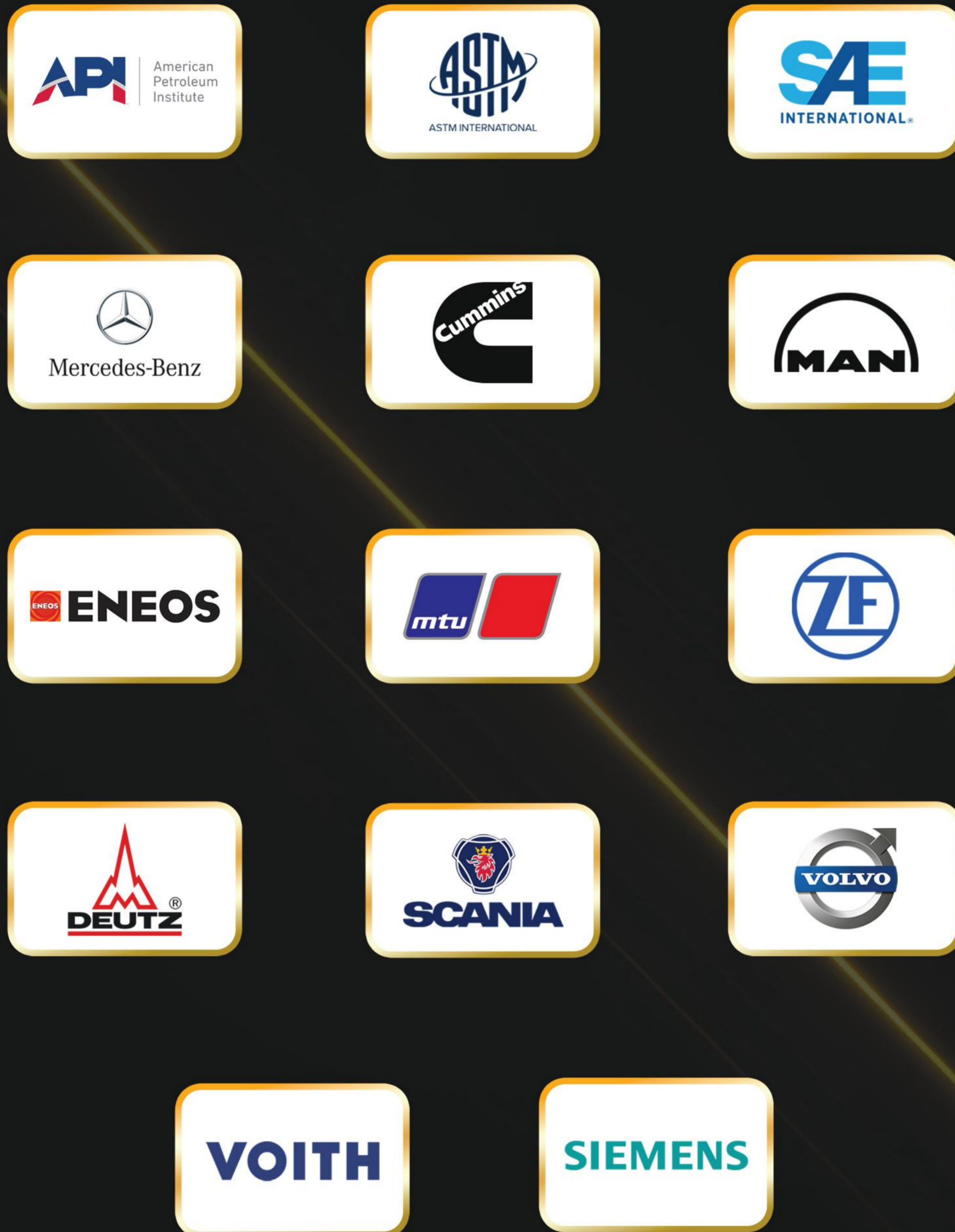
**OMNI**

## Specialty Fluids & Ancillary Oils

A diverse line of brake fluids, ATFs, coolants, flushing oils, transmission oils, white oil, and other auxiliary fluids.

# CERTIFICATIONS & APPROVALS

Our products are developed and tested to meet the highest international standards. Over the years, QALCO Energy® has earned recognition from several leading OEMs, reinforcing our commitment to quality, performance, and industry compliance.



## Disclaimer:

Logos shown represent OEMs and standards bodies with whom QALCO Energy® products have held certifications, approvals, or compliance status - either currently or in the past. For specific product-level approval status, please contact our technical team.

# PASSENGER CAR MOTOR OILS (PCMO)



Engineered for precision performance - Passenger Car Motor Oils protect, clean, and optimize modern engines for smoother, longer-lasting performance in every journey.

# PASSENGER CAR MOTOR OILS (PCMO)



## SPECTRO ALFA Q1 (API SP)

Fully Synthetic

A premium 100% synthetic engine oil designed for modern gasoline and light-duty diesel engines, including turbocharged and direct injection systems. Engineered with advanced additives, it offers outstanding thermal stability, superior wear protection, and extended oil life even under severe driving conditions. Ideal for high-performance applications, it ensures smooth cold starts in low temperatures and supports improved fuel economy.

Grade	1L	4L	20L	208L
0W-20	✓	✓	✓	✓
5W-20	-	-	✓	✓
5W-30	✓	✓	✓	✓
-	-	-	-	-
-	-	-	-	-

Application: Recommended for modern gasoline engines, including turbocharged and gasoline direct injection (GDI) types. Provides enhanced protection against LSPI, timing chain wear, sludge, and varnish buildup. Suitable for extreme temperatures and extended oil drain intervals.

Meets Performance Level: API SP, SN, ILSAC GF-6A, GM Dexos 1 Gen 3

Grade	1L	4L	20L	208L
0W-20	-	-	✓	✓
0W-40	-	-	✓	✓
5W-20	-	-	✓	✓
5W-30	✓	✓	✓	✓
5W-40	✓	✓	✓	✓

## SPECTRO ALFA Q1 (API SN)

Fully Synthetic

Formulated with advanced synthetic base stock, this engine oil delivers exceptional viscosity stability across a wide temperature range, ensuring a robust lubricating film for enhanced protection of engine bearings and piston rings. It offers excellent fuel economy, superior cold-start performance, and reliable protection for high-performance or heavily loaded vehicles.



Application: Suitable for gasoline and diesel engines requiring API SN, SM, SL, or CF specifications.

Meets Performance Level: API SN/SM/SL, ACEA A3/B4, MB 229.5, MB 229.3, MB 226.5, VW50200, Porsche A40, Opel GM-LL-A-025, Renault RN0700, Ford WSS-M2C913-C/D



## SPECTRO ALFA (API SN)

Synthetic Technology

An ultra-premium engine oil developed with synthetic technology and advanced additive systems to meet API SN performance standards. It delivers outstanding protection for gasoline and diesel engines, enhances fuel efficiency, and ensures excellent cold-start performance. The formulation is engineered to resist high-temperature deposits, control sludge buildup, and provide reliable protection for turbocharged engines even under demanding conditions.

Grade	1L	4L	20L	208L
10W-30	✓	✓	✓	✓
10W-40	✓	✓	✓	✓
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

Application: Suitable for gasoline and diesel engines, including turbocharged and high-performance vehicles operating under severe conditions.

Meets Performance Level: API SN/SM/SL, ACEA A3/B4

# PASSENGER CAR MOTOR OILS (PCMO)



## SPECTRO ALFA 20W50 (API SN)

Mineral Base

An ultra-premium engine oil formulated with high-quality base oils and advanced additive technology to meet API SN, SM, and SL standards. It offers superior protection for both gasoline and diesel engines, improves fuel economy, and ensures reliable cold-start performance. The formulation effectively resists high-temperature deposits, controls sludge formation, and provides optimal protection for turbocharged engines.

Grade	1L	4L	20L	208L
20W-50	✓	✓	✓	✓
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

Application: Suitable for gasoline and diesel engines, including turbocharged and high-performance vehicles.

Meets Performance Level: API SN/SM/SL, ACEA A3/B4

Grade	1L	4L	20L	208L
5W-20	-	-	✓	✓
5W-30	-	-	✓	✓
5W-40	✓	✓	✓	✓
-	-	-	-	-
-	-	-	-	-

## SPECTRO ALFA Q1 (API SM)

Fully Synthetic

Developed with synthetic technology, this engine oil offers excellent resistance to viscosity breakdown, forming a stable and protective oil film over critical engine components. It enhances fuel efficiency and ensures dependable cold-start performance even in low temperatures. Engineered for superior protection in high-performance and heat-intensive driving conditions.



Application: Suitable for gasoline and diesel engines requiring API SM, SL, or CF specifications.

Meets Performance Level: API SM/SL, ACEA A3/B4



## SPECTRO ALFA (API SM)

Synthetic Technology

A new-generation, high-performance engine oil formulated from a synthetic blend of premium base oils and advanced additives. It is designed to meet the lubrication demands of modern gasoline-powered engines, offering superior protection against wear, oxidation, sludge formation, and deposit buildup. Enhanced with detergent, dispersant, and anti-foam technologies, it ensures long-lasting engine cleanliness and thermal stability even under harsh operating conditions.

Grade	1L	4L	20L	208L
10W-40	✓	✓	✓	✓
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

Application: Suitable for passenger cars, SUVs, pick-up trucks, and vans with naturally aspirated, turbocharged, or supercharged gasoline engines. Recommended for engines operating in hot climates, heavy-duty service conditions, extended oil drain intervals, and older diesel engines requiring API CF performance.

Meets Performance Level: API SM/SL, ACEA A3/B4

# PASSENGER CAR MOTOR OILS (PCMO)



## SPECTRO ALFA (API SL)

Mineral Base

A new-generation, high-performance engine oil formulated with highly refined base stocks and advanced additive technology to meet the demands of gasoline-powered engines. It offers excellent protection against deposits, black sludge, and oil thickening, ensuring a cleaner engine and longer life. Designed to deliver outstanding wear protection even under extreme operating conditions, including turbocharged, supercharged, and naturally aspirated engines.

Grade	1L	4L	20L	208L
20W-50	✓	✓	✓	✓
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

Application: Suitable for use in gasoline-powered passenger cars, pick-up trucks, and vans requiring oils meeting API SL or earlier performance levels.

Meets Performance Level: *API SL/CF, ACEA A3/B4*

Grade	1L	4L	20L	208L
15W-40	-	-	✓	✓
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

## SPECTRO ALFA CNG

CNG Engine Oil

A medium ash, premium-performance engine oil specifically designed for use in CNG (Compressed Natural Gas), LNG (Liquefied Natural Gas), and dual-fuel engines. Suitable for heavy-duty vehicles such as buses, shuttles, trucks, and CNG-powered equipment like sweepers. Formulated with high-quality base stocks and an advanced additive package containing ashless dispersants, oxidation inhibitors, metallic detergents, and a zinc-based anti-wear system. Provides superior protection against oxidation, nitration, and thermal breakdown—ensuring long service life and reliable engine performance.



Application: Recommended for spark-ignited, medium- and high-speed, four-cycle engines requiring medium ash lubricants. Delivers consistent performance in engines converted to or operating on CNG, including lean/clean burn engines and those equipped with catalytic converters.

# DIESEL ENGINE OILS (DEO)



Engineered for endurance - Diesel Engine Oils protect and power heavy-duty and locomotive engines, delivering reliable performance, cleaner operation, and long-lasting protection even in the harshest conditions.

# DIESEL ENGINE OILS (DEO)



## SPECTRO QUAD PRO (API CK-4)

Synthetic Technology

A superior low SAPS, ultra-performance heavy-duty diesel engine oil that meets API CK-4 specifications, developed using synthetic technology based stocks and advanced additive technology. It provides the highest level of protection against wear and corrosion while delivering excellent high-temperature performance required for EURO I, II, III, IV, and V emission standard engines. Formulated to be compatible with NOx reduction systems and particulate filters when used with low sulfur diesel fuel (maximum 50 ppm sulfur content).

Grade	1L	5L	20L	208L
10W-40	-	-	✓	✓
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

Application: Designed for on- and off-highway heavy-duty vehicles requiring low SAPS engine oil. Suitable for naturally aspirated and turbocharged powered equipment, as well as diesel engines in cars and light-duty trucks.

Meets Performance Level: API CK-4, CJ-4/SN ACEA: E6, E7, E8, E11, MB 228.51/MB 228.52, VOLVO VDS-4.5, Renault Truck RLD-3, DEUTZ DQC III-18 LA

Grade	1L	5L	20L	208L
10W-30	-	-	✓	✓
15W-40	-	-	✓	✓
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

## SPECTRO QUAD (API CK-4)

Synthetic Technology

A superior low SAPS, ultra-performance heavy-duty diesel engine oil that meets API CK-4 specifications, developed using high-quality hydrotreated base oils and advanced additive technology. It provides the highest level of protection against wear and corrosion while delivering excellent high-temperature performance required for EURO I, II, III, IV, and V emission standard engines. Formulated to be compatible with NOx reduction systems and particulate filters when used with low sulfur diesel fuel (maximum 50 ppm sulfur content).



Application: Designed for on- and off-highway heavy-duty vehicles requiring low SAPS engine oil. Suitable for naturally aspirated and turbocharged powered equipment, as well as diesel engines in cars and light-duty trucks.

Meets Performance Level: API CK-4, CJ-4/SN ACEA: E7, E9, E11, MB 228.31, VOLVO VDS-4.5, Renault Truck RLD-3, DEUTZ DQC III-10 LA



## TOPAZ HMF 15W-40 (API CI-4)

Mineral Base

A heavy-duty diesel engine oil meticulously engineered using a blend of premium hydrotreated base oils and carefully selected additives to deliver exceptional performance in recommended applications. Its advanced extreme-pressure formula effectively reduces wear and enhances engine longevity. Fortified with oxidation and corrosion inhibitors, high-temperature anti-wear additives, and foam suppressors, it ensures superior protection for critical engine components. The detergent-dispersant system minimizes sulphated ash buildup, keeping engines clean and efficient even under tough operating conditions.

Grade	1L	5L	20L	208L
15W-40	-	✓	✓	✓
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

Application: Designed for modern EGR-equipped diesel engines meeting CI-4 standards, operating at higher temperatures and soot levels under stringent EPA emission requirements.

Meets Performance Level: API CI-4 / CH-4, ACEA: E7, DTRF 15B110 (Previously MB 228.3), Cummins: CES 20076 / 20078, Caterpillar: ECF-2 / ECF-1-a, Renault Trucks: RXD / RLD-2, Volvo: VDS-3, MAN M3275

# DIESEL ENGINE OILS (DEO)



## TOPAZ HMF (API CI-4 Plus)

Mineral Base

A premium diesel engine oil carefully formulated with a blend of high-quality hydrotreated base oils and specially selected additives to deliver excellent performance in recommended applications. It features an advanced extreme pressure formula to reduce wear and extend engine life. Fortified with oxidation-corrosion inhibitors, high-temperature anti-wear additives, and foam inhibitors, it provides superior protection against scuffing and bearing corrosion. A highly effective detergent-dispersant system helps keep sulphated ash to a minimum, ensuring cleaner engine operation.

Grade	1L	5L	20L	208L
15W-40	-	-	✓	✓
20W-50	-	-	✓	✓
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

**Application:** Developed to meet the CI-4 Plus specification, specifically for lower-emission, EGR-equipped diesel engines operating under stricter emission standards. Designed to handle engines that produce higher soot levels and operate at hotter temperatures than earlier diesel models.

Meets Performance Level: API CI-4+/CI-4 / CH-4 , ACEA: E7, DTFR 15B110 (Previously MB 228.3), Cummins: CES 20076 / 20078, Caterpillar: ECF-2 / ECF-1-a, Renault Trucks: RXD / RLD-2, Volvo: VDS-3, MAN M3275

Grade	1L	5L	20L	208L
25W-60	-	✓	✓	✓
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

## MILEAGE PLUS 25W-60 (API CI-4)

Mineral Base

A general-purpose multi-grade diesel engine oil specially formulated for older design engines and high-mileage vehicles. Blended from highly refined mineral oils and fortified with ashless dispersants and metallo-organic detergents, it offers reliable protection against engine wear and sludge formation. With API CI-4 service category performance, it helps reduce oil consumption and extend engine life under high-temperature and high-load conditions.



**Application:** Suitable for both diesel and gasoline-powered engines, high-mileage vehicles, and older large-capacity engine sumps operating in demanding environments.

Meets Performance Level: API CI-4 / CH-4 , ACEA: E7, DTFR 15B110 (Previously MB 228.3), Cummins: CES 20076 / 20078, Caterpillar: ECF-2 / ECF-1-a, Renault Trucks: RXD / RLD-2, Volvo: VDS-3, MAN M3275



## SPECTRO QUAD ST (API CI-4)

Fully Synthetic

A fully synthetic technology heavy-duty diesel engine oil designed for the latest generation engines with or without turbochargers and EGR systems. It offers extended drain intervals, superior wear protection, and enhanced fuel economy compared to conventional oils. Its advanced formulation ensures exceptional performance over long service periods while meeting the latest service requirements of virtually all four-stroke diesel engine manufacturers.

Grade	1L	5L	20L	208L
10W-40	-	-	✓	✓
15W-50	-	-	✓	✓
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

**Application:** Suitable for all types of diesel engines, including turbocharged and naturally aspirated units, operating at higher temperatures than traditional diesel engines. Designed to combat varnish formation and soot buildup, and formulated to meet CI-4 specifications.

Meets Performance Level: API CI-4 / CH-4 , ACEA: E7, DTFR 15B110 (Previously MB 228.3), Cummins: CES 20076 / 20078, Caterpillar: ECF-2 / ECF-1-a, Renault Trucks: RXD / RLD-2, Volvo: VDS-3, MAN M3275

# DIESEL ENGINE OILS (DEO)



## SPECTRO QUAD VHP (API CI-4)

Synthetic Technology

A very high-performance diesel engine oil formulated with advanced synthetic technology base oils and a robust additive system to meet the demanding requirements of modern diesel engines. It offers outstanding protection against wear, deposits, oxidation, and soot buildup, making it ideal for extended drain intervals and high-load conditions. Engineered to perform reliably in engines operating at higher temperatures, it ensures superior protection for both turbocharged and naturally aspirated units.

Grade	1L	5L	20L	208L
10W-40	-	-	✓	✓
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

Application: Suitable for heavy-duty diesel engines operating under severe conditions, including highway, off-road, and construction equipment. Designed for modern engines meeting Euro IV and earlier emissions standards, including those with EGR systems (excluding DPF). Recommended for turbocharged and naturally aspirated engines under high thermal stress, extended drain intervals in fleet operations, and both on-road and off-road commercial applications.

Meets Performance Level: API CI-4 / CH-4, ACEA: E7, DTFR 15B110 (Previously MB 228.3), Cummins: CES 20076 / 20078, Caterpillar: ECF-2 / ECF-1-a, Renault Trucks: RXD / RLD-2, Volvo: VDS-3, MAN M3275

Grade	1L	5L	20L	208L
15W-40	-	✓	✓	✓
20W-40	-	-	✓	✓
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

## SPECTRO QUAD MAX (API CF-4)

Mineral Base

A superior-quality, high-detergent automotive engine oil formulated to meet the stringent lubrication demands of modern engines. Blended with high-viscosity-index base oils and a carefully selected additive package, it delivers maximum protection against wear, rust, corrosion, oxidative thickening, acid formation, sludge, and varnish deposits.



Application: Suitable for both turbocharged and naturally aspirated diesel engines used in heavy-duty trucking, construction, mining, power generation, and agricultural equipment. Meets MIL-L-2104F and MIL-L-2104E specifications, providing excellent detergency, dispersancy, and wear protection even under high-temperature conditions.

Meets Performance Level: API CF-4/CF, ACEA E2, MB 228.3 / 228.1, MAN 271, MTU Type 1, VOLVO VDS, MIL-L-2104F / MIL-L-2104E



## SPECTRO QUAD XLT (API CF)

Mineral Base

A high-quality mineral-based diesel engine oil designed to meet API CF performance requirements. It incorporates an advanced additive system with ashless dispersants and metallo-organic detergents, ensuring superior engine cleanliness, wear protection, and oxidation control. Optimized for use with diesel fuels containing higher sulfur content ( 0.5 wt%), it is ideal for a wide range of older and off-road diesel engine technologies.

Grade	1L	5L	20L	208L
10W	-	-	✓	✓
30	-	-	✓	✓
40	-	-	✓	✓
50	-	✓	✓	✓
10W-30	-	-	✓	✓
15W-40	-	-	✓	✓
20W-50	-	-	✓	✓
20W-20	-	-	✓	✓

Application: Suitable for naturally aspirated, turbocharged, or supercharged diesel engines operating under severe conditions. Recommended for on- and off-road vehicles (trucks, buses, construction, quarrying, mining equipment), stationary engines, generators, agricultural equipment, and transmissions, final drives, and hydraulic systems requiring API CF, Series 3, or CD II oils. Provides excellent control of piston deposits, copper bearing corrosion, and engine wear.

Meets Performance Level: API CF/SF, MB 228.1, MAN M370/271, Deutz DQC I-02, CAT TO-2

# DIESEL ENGINE OILS (DEO)



## SPECTRO QUAD HDO 60 API CF

Diesel Engine Oil

A general-purpose engine oil formulated to protect against wear, corrosion, and the buildup of deposits and sludge. Blended from highly refined mineral oils and fortified with ashless dispersants and metallo-organic detergents, it delivers reliable engine protection, reduces oil consumption, and extends engine life by minimizing friction and wear.

Grade	1L	5L	20L	208L
SAE-60	-	-	✓	✓
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

Application: Suitable for diesel and gasoline-powered engines, high-mileage vehicles, and older large-capacity engine sumps operating under high-temperature or high-load conditions.

Meets Performance Level: *API CF/SF, MB 228.1, MAN M370/271, Deutz DQC I-02, CAT TO-2*

Grade	1L	5L	20L	208L
20W-40	-	-	✓	✓
40	-	-	✓	✓
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

## SPECTRO QUAD LOCO IV

Locomotive

A premium-quality, High Viscosity Index Generation IV "zinc-free" locomotive diesel engine oil formulated with advanced additive technology and premium base oils to set new industry standards for locomotive engine performance. Extensively tested and proven in commercial service worldwide, it delivers increased engine performance, extended oil life, and superior wear protection.



Application: Intended for use in railroad diesel engines where LMOA Generation IV or GE Extra Performance oils are specified. Also suitable for low- to medium-speed industrial diesel engines, power generation units, oil well drilling operations, and select marine applications requiring zinc-free oils.

Meets Performance Level: *API CF / CF-2, GE Generation 4 Long Life, Caterpillar 3601*



## SPECTRO QUAD LOCO V

Locomotive

A premium-quality, High Viscosity Index Generation V "zinc-free" locomotive diesel engine oil formulated with advanced additive technology and premium base oils to set new industry standards for locomotive engine performance. Extensively tested and proven in commercial service worldwide, it delivers enhanced engine performance, extended oil life, and superior wear protection.

Grade	1L	5L	20L	208L
20W-40	-	-	✓	✓
40	-	-	✓	✓
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

Application: Intended for use in railroad diesel engines where LMOA Generation V or GE Extra Performance oils are specified. Also suitable for low- to medium-speed industrial diesel engines and select marine applications requiring zinc-free oils.

Meets Performance Level: *API CF / CD II, LMOA Generation V, General Motors EMD Specification*

# AUTOMOTIVE GEAR & TRANSMISSION OILS



Engineered for precision - Gear & Transmission Oils deliver superior load-carrying strength, smooth shifting, and long-lasting protection for modern driveline systems in both passenger and commercial vehicles.

# AUTOMOTIVE GEAR & TRANSMISSION OILS



## SPECTRO OMNI ATF DEX III

Automatic Transmission Fluid

A premium automatic transmission fluid formulated with light-viscosity synthetic base oils and a very high viscosity index additive system. Specifically engineered to meet DEXRON IIIH requirements, it offers outstanding friction control, wear protection, thermal stability, and excellent low-temperature performance. Ensures smooth and consistent operation over extended service intervals in modern automatic transmissions, power-shift units, and hydraulic systems.

Grade	1L	4L	20L	208L
DEX III	✓	-	✓	✓
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

Application: Suitable for automatic transmissions in passenger cars, SUVs, and light-duty commercial vehicles; power-shift transmissions in construction and off-road equipment; industrial and mobile hydraulic systems requiring ATF-type fluids; power steering units and torque converters; and equipment operating under extreme temperature or high-load conditions.

Grade	1L	4L	20L	208L
DEX II	✓	-	✓	✓
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

## SPECTRO OMNI ATF DEX II

Automatic Transmission Fluid

A high-quality automatic transmission fluid formulated with light-viscosity mineral base oils and a very high viscosity index, specifically designed to meet Dexron IID and IIE specifications. Fortified with a multifunctional additive package, it delivers excellent performance in automatic transmissions, power-shift systems, hydraulic systems, and power steering units. Its enhanced anti-wear properties ensure good load-carrying capability and long-term protection of vital components such as pumps and clutches.



Application: Recommended for automatic transmissions in passenger cars, commercial vehicles, and light-duty trucks; off-highway and industrial equipment requiring Dexron IID or IIE fluids; power steering systems; selected manual transmissions; and mobile or stationary hydraulic systems where Dexron-type ATF is specified. Fully compatible with systems originally requiring DEXRON II fluids.



## SPECTRO OMNI ATF 33

Automatic Transmission Fluid

A high-quality automatic transmission fluid formulated with low-viscosity base oils and high viscosity index additives to ensure reliable performance and extended transmission life. It provides excellent thermal stability, oxidation resistance, and protection against clutch slippage—ensuring smooth operation and long service intervals.

Grade	1L	4L	20L	208L
-	-	-	✓	✓
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

Application: Specifically designed for use in passenger cars and light trucks manufactured by Ford Motor Company prior to 1977 and certain models from 1977–1980 requiring fluids that meet Ford M2C33F or M2C33G specifications.

# AUTOMOTIVE GEAR & TRANSMISSION OILS



## SPECTRO ONE OMNI GEAR (API GL-5)

Synthetic Automotive Gear Oil

A range of fully synthetic, high-performance automotive gear lubricants formulated with advanced synthetic base oils and a premium extreme pressure (EP) additive system. Meeting the stringent requirements of API GL-5, these oils deliver superior protection, extended service life, and outstanding load-carrying capacity across a wide range of temperatures and operating conditions. Designed for both light and heavy-duty gear applications, they ensure excellent thermal stability and reliability even under extreme pressure and torque.

Grade	1L	4L	20L	208L
75W-90	-	-	✓	✓
75W-140	-	-	✓	✓
80W-140	-	-	✓	✓
-	-	-	-	-
-	-	-	-	-

Application: Suitable for hypoid and spiral bevel gear sets, including differentials and final drives; manual transmissions and transaxles requiring API GL-5 or MT-1 performance; driveline systems in passenger cars, heavy-duty trucks, buses, and off-road equipment; and extended-drain gear systems where long oil life and durability are critical.

Grade	1L	4L	20L	208L
85W-140	-	-	✓	✓
85W-90	-	-	✓	✓
80W-90	-	✓	✓	✓
80W	-	-	✓	✓
90	-	-	✓	✓
140	-	-	✓	✓
-	-	-	-	-
-	-	-	-	-

## SPECTRO OMNI GEAR (API GL-5)

Mineral Automotive Gear Oil

A high-performance mineral gear oil formulated with a balanced package of extreme pressure (EP) and multifunctional additives to ensure reliable performance across a wide range of automotive gear applications. It provides excellent load-carrying ability, anti-scuff protection, thermal stability, and corrosion resistance. Engineered for durability in both high-speed/low-torque and low-speed/high-torque conditions, it meets the performance requirements of API GL-5.



Application: Recommended for manual transmissions and transaxles requiring GL-5 fluids; hypoid and spiral bevel gear axles exposed to high pressure and shock loading; steering gears and differentials in commercial and passenger vehicles; and applications with severe duty cycles, high loads, and wide temperature variations. Suitable where anti-scuff performance equal to or exceeding CRC Reference Gear Oil RGO-110 is required.



## SPECTRO OMNI GEAR (API GL-4)

Mineral Automotive Gear Oil

A high-performance, extreme pressure (EP) mineral gear lubricant formulated to meet the requirements of API GL-4. Designed for manual transmissions, differentials, and steering gears, it features multifunctional additives that deliver excellent anti-wear protection, oxidation stability, and corrosion resistance. Ideal for gear systems operating under both high-speed/low-torque and low-speed/high-torque conditions.

Grade	1L	4L	20L	208L
85W-140	-	-	✓	✓
85W-90	-	-	✓	✓
85W-110	-	-	✓	✓
80W-90	-	-	✓	✓
80W	-	-	✓	✓
90	-	✓	✓	✓
140	-	✓	✓	✓
-	-	-	-	-

Application: Suitable for manual and synchronized transmissions requiring API GL-4; spiral bevel and hypoid gear axles in commercial and passenger vehicles; differentials, gear sets, and transaxles operating under moderate EP conditions. Recommended where anti-scuff performance equivalent to or exceeding CRC RGO-110 is required—especially in synchronized transmissions sensitive to aggressive EP formulations.

# AUTOMOTIVE GEAR & TRANSMISSION OILS



## SPECTRO ONE OMNI GEAR-S 75W80 (API GL-5)

Synthetic Automotive Gear Oil

A fully synthetic gear oil designed to deliver high performance and superior protection for current and next-generation heavy-duty gearboxes. Formulated with premium synthetic base oils and advanced additive technology, it ensures excellent lubrication, prevents overheating, and provides reliable low-temperature performance due to its naturally high viscosity index.

Grade	1L	5L	20L	208L
75W-80	-	-	✓	✓
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

Application: Suitable for extended drain intervals in the gearboxes of commercial vehicles from Renault Trucks, DAF, Iveco, and others equipped with manual or automated transmissions. Recommended for applications requiring API GL-5 performance and for transmissions where SAE 75W, 80W, or 75W80 multigrade mineral EP oils are specified.

Grade	1L	5L	20L	208L
75W-80	-	-	✓	✓
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

## SPECTRO ONE OMNI GEAR-S 75W80 (API GL-4)

Synthetic Automotive Gear Oil

A fully synthetic gear oil designed to deliver high performance and superior protection for current and next-generation heavy-duty gearboxes. Formulated with premium synthetic base oils and advanced additive technology, it ensures excellent lubrication, prevents overheating, and provides reliable low-temperature performance due to its naturally high viscosity index.



Application: Suitable for extended drain intervals in the gearboxes of commercial vehicles from Renault Trucks, DAF, Iveco, and others equipped with manual or automated transmissions. Recommended for applications requiring API GL-4 performance and for transmissions where SAE 75W, 80W, or 75W80 multigrade mineral EP oils are specified.



## SPECTRO OMNI TDT (TO-4)

Transmission Drive Train Oils

A premium heavy-duty transmission and drive train lubricant formulated with high-quality solvent-refined mineral base oils and a specialized additive system. Designed to meet the frictional, durability, and performance requirements of Caterpillar TO-4, Allison C-4, and Komatsu Dresser specifications, it offers excellent wear protection, oxidation stability, and material compatibility. Delivers reliable performance in severe off-highway and construction environments.

Grade	1L	4L	20L	208L
10W	-	-	✓	✓
30	-	-	✓	✓
40	-	-	✓	✓
50	-	-	✓	✓
-	-	-	-	-

Application: Suitable for powershift transmissions, torque converters, final drives, and wet disc brakes. Recommended for off-highway equipment including loaders, graders, dozers, haul trucks, and articulated vehicles. Compatible with systems requiring Caterpillar TO-4, Allison C-4, ZF TE-ML transmission oils, or engine oil-type fluids meeting API CF and CF-2 specifications. Maintains performance under high loads, elevated temperatures, and frequent shifting conditions.

# AUTOMOTIVE GEAR & TRANSMISSION OILS



## SPECTRO OMNI TRAX GL-4

Universal Tractor Transmission Oil

A high-performance, multi-functional lubricant formulated with hydrotreated mineral base oils and a balanced additive system to meet the varied lubrication needs of modern agricultural and off-road equipment. Designed to deliver reliable performance in engines, transmissions, hydraulic systems, PTO units, and wet brakes, it ensures excellent shear stability, wear protection, and compatibility with seals and friction materials.

Grade	1L	4L	20L	208L
10W-30	-	-	✓	✓
15W-30	-	-	✓	✓
15W-40	-	-	✓	✓
20W-40	-	-	✓	✓
-	-	-	-	-

Application: Ideal for all-in-one lubrication systems in tractors, harvesters, and agricultural machinery. Suitable for diesel and gasoline engines, final drives, transmissions, hydraulic systems, wet brake systems, and power take-off units. Recommended for equipment operating under variable load and temperature conditions and for mixed fleet operations aiming to simplify lubricant inventory.

Grade	1L	5L	20L	208L
10W-30	-	-	✓	✓
10W-40	-	-	✓	✓
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

## SPECTRO OMNI TRAXSYN GL-4

Synthetic Universal Tractor Transmission Oil

A high-performance multifunctional lubricant based on synthetic technology, developed to meet the latest performance standards of modern agricultural machinery. It offers enhanced shear stability, superior wear protection, and improved compatibility with seals and materials across critical systems—providing reliable performance in demanding agricultural operations.



Application: Suitable for use in agricultural machinery, covering engine crankcases (diesel and four-stroke gasoline), hydraulic systems, manual and powershift transmissions, wet brakes, final drives, PTO units, hydrostatic drives, and power steering systems. Designed to perform consistently in variable climates and under high-load conditions.

# INDUSTRIAL LUBRICANTS



Engineered for versatility - Industrial Lubricants cover turbines, compressors, gears, and cutting applications, ensuring clean operation, thermal stability, and long-term protection under demanding industrial conditions.

# INDUSTRIAL LUBRICANTS



## SPECTRO CORE GEAR-EP

Mineral Based Industrial Gear Oil

A high-performance industrial gear oil formulated with premium-quality mineral base oils and advanced extreme pressure (EP) additives. It delivers excellent wear protection, oxidation stability, and thermal resistance, making it ideal for heavily loaded gears and critical industrial applications. Designed to ensure smooth operation, extend equipment life, and reduce downtime even under extreme or shock load conditions.

Grade	4L	20L	200L	208L
32	-	✓	-	✓
46	-	✓	-	✓
68	-	✓	-	✓
100	-	✓	-	✓
150	-	✓	-	✓
220	-	✓	-	✓
320	-	✓	-	✓
460	-	✓	-	✓
680	-	✓	-	✓
1000	-	✓	-	✓

Application: Suitable for the lubrication of bearings and enclosed gears operating under severe load or high-temperature conditions. Recommended for speed reducer gearboxes, cement mills, sugar mills, mining hoists, and a variety of gear types including helical, spiral bevel, hypoid, and fully loaded spur gears. Meets the requirements of DIN 51517 Part 3 and US Steel 224 specifications.

Grade	4L	20L	200L	208L
32	-	✓	-	✓
46	-	✓	-	✓
68	-	✓	-	✓
77	-	✓	-	✓
-	-	-	-	-

## SPECTRO CORE TRB

Turbine Oil

A high-quality turbine and circulating oil designed for steam and gas turbines. Formulated with carefully selected R&O (rust and oxidation) additives, it delivers excellent oxidation and thermal stability, helping to resist sludge and varnish formation and extend oil life. It also offers outstanding demulsibility, allowing water to separate easily and preventing emulsions. The formulation ensures low foaming and rapid air release, reducing the risk of oxidation caused by air entrapment.



Application: Recommended for lubrication and control systems of steam, water, and gas turbines. Also suitable for use in hydraulic systems, high-speed gear units, pumps, compressors, and turbine-driven generators.



## SPECTRO CORE PERFO

Zinc Free R&O Circulating Oil

A high-quality, zinc-free rust and oxidation (R&O) inhibited lubricant formulated for long service life and reliable performance across a wide range of industrial applications. Developed with premium base oils and an ashless additive system, it delivers excellent oxidation resistance, corrosion protection, water separation, and anti-foam characteristics—making it ideal for systems with metal-sensitive components or fine filtration.

Grade	4L	20L	200L	208L
5	-	✓	-	✓
10	-	✓	-	✓
15	-	✓	-	✓
22	-	✓	-	✓
32	-	✓	-	✓
46	-	✓	-	✓
68	-	✓	-	✓
100	-	✓	-	✓
150	-	✓	-	✓
220	-	✓	-	✓
320	-	✓	-	✓

Application: Suitable for general-purpose circulation systems, vacuum pumps, air compressors, non-EP industrial gearboxes, electric motor and high-speed bearing lubrication (plain or rolling), airline mist lubrication systems, and hydraulic systems operating under mild pressure and temperature conditions. Its thermal and oxidative stability supports extended drain intervals in critical machinery.

# INDUSTRIAL LUBRICANTS



## SPECTRO CORE PERFO ND

Non Detergent Circulating Oil

A non-detergent, premium-quality mineral oil formulated with high viscosity index base stocks. It offers reliable protection against deposit formation and provides good oxidation and thermal stability under normal operating conditions. Free from active additives, it is ideal for applications requiring non-additive lubricants.

Grade	4L	20L	200L	208L
10	-	✓	-	✓
32	-	✓	-	✓
46	-	✓	-	✓
68	-	✓	-	✓
100	-	✓	-	✓
150	-	✓	-	✓
220	-	✓	-	✓
320	-	✓	-	✓

Application: Suitable for circulating lubrication systems where non-additive mineral oil is specified. Recommended for plain and rolling contact bearings, including those in electric motors, as well as moderately loaded gear sets that do not require extreme pressure (EP) lubricants. Also suitable for use as a general-purpose lubricant in various industrial applications.

Grade	4L	20L	200L	208L
10	-	✓	-	✓
32	-	✓	-	✓
46	-	✓	-	✓
68	-	✓	-	✓
100	-	✓	-	✓
150	-	✓	-	✓

## SPECTRO CORE PERFO HVI

Zinc Free HVI - R&O Circulating Oil

A premium-quality, high viscosity index (HVI), zinc-free hydraulic and R&O circulating oil formulated for demanding industrial environments and systems exposed to wide temperature variations. Developed using hydrotreated base oils and shear-stable viscosity modifiers, it provides excellent oxidation stability, corrosion protection, and demulsibility. Its high Viscosity Index ensures consistent performance, improved energy efficiency, and responsive operation across temperature extremes.



Application: Recommended for hydraulic systems operating under high pressure, wide temperature fluctuations, or outdoor conditions; industrial machinery such as injection molding units, presses, and construction equipment; circulating lubrication systems, gear units, and bearing systems requiring stable R&O oils; and systems with fine filtration or sensitive components like servo- and proportional valves. Excellent water separation and filterability make it ideal for systems with tight tolerances.



## SPECTRO CORE PERFO SW

Slideway Oil

A premium-quality lubricant specifically engineered for the smooth and precise operation of machine tool slideways, feed mechanisms, and linear guideways. Formulated with advanced lubricity enhancers and anti-wear additives, it forms a strong oil film that minimizes friction, prevents stick-slip, and supports high load-carrying capacity, ensuring consistent machine accuracy and reliability.

Grade	4L	20L	200L	208L
32	-	✓	-	✓
68	-	✓	-	✓
150	-	✓	-	✓
220	-	✓	-	✓

Application: Suitable for horizontal and vertical slideways in CNC and conventional machine tools; ideal for systems operating under low speed and high load where anti-stick-slip performance is critical. Can also serve as a combined slideway and hydraulic fluid in dual-purpose systems.

# INDUSTRIAL LUBRICANTS



## SPECTRO CORE PERFOSYN

Synthetic Multi-Purpose Oil

A fully synthetic rust and oxidation (R&O) gear and bearing oil formulated with premium polyalphaolefin (PAO) base fluids and high-viscosity index properties. Fortified with advanced rust and oxidation inhibitors, it delivers exceptional protection under extreme conditions, offering long service life, superior thermal stability, and resistance to oxidation. Excellent demulsibility ensures effective water separation, while its anti-foam characteristics prevent foam buildup in reservoirs and systems.

Grade	4L	20L	200L	208L
32	-	✓	-	✓
46	-	✓	-	✓
68	-	✓	-	✓
100	-	✓	-	✓
150	-	✓	-	✓
220	-	✓	-	✓
320	-	✓	-	✓
460	-	✓	-	✓
680	-	✓	-	✓
1000	-	✓	-	✓

Application: Designed for the lubrication of bearings, vacuum pumps, industrial gear sets, air compressors, and a wide range of industrial equipment. Suitable for plain and rolling contact bearings operating at elevated temperatures.

Grade	4L	20L	200L	208L
32	-	✓	-	✓
46	-	✓	-	✓
68	-	✓	-	✓
100	-	✓	-	✓
150	-	✓	-	✓

## SPECTRO CORE SS

Compressor Oil

A high-quality mineral-based compressor lubricant designed to deliver outstanding wear protection, oxidation stability, and thermal resistance. Formulated for efficient performance and reduced carbon buildup, it supports extended oil drain intervals and consistent operation. Its excellent water separation and anti-foaming properties enhance equipment reliability in demanding industrial environments.



Application: Suitable for oil-flooded rotary screw and sliding vane compressors, as well as most industrial reciprocating air compressors. Also recommended for lubricating air ends in mobile plant configurations.



## SPECTRO CORE ONE COMP

PAO Based Compressor Oil

Premium-quality synthetic compressor oils formulated with Polyalphaolefin (PAO) technology for the lubrication of severe-duty rotary screw compressors, vane compressors, and turbochargers. Their wax-free synthetic base ensures excellent low-temperature performance, while superior oxidation and thermal stability extend oil life and reduce maintenance needs. With high viscosity indices and low pour points, these oils perform reliably across a wide range of ambient conditions.

Grade	4L	20L	200L	208L
32	-	✓	-	✓
46	-	✓	-	✓
68	-	✓	-	✓
100	-	✓	-	✓
150	-	✓	-	✓

Application: Recommended for all types of rotary screw, vane, reciprocating, and centrifugal air compressors. Also suitable for lubricating selected marine diesel engine turbochargers.

# INDUSTRIAL LUBRICANTS



## SPECTRO CORE COMP-PAG

PAG Based Compressor Oil

A high-performance Polyalkylene Glycol (PAG)-based synthetic lubricant specifically formulated for use in the crankcases, bearings, and gas-filled chambers of hydrocarbon and chemical gas compressors. It delivers superior performance in environments where conventional mineral or PAO oils are ineffective due to gas solubility issues, ensuring reliable lubrication, chemical resistance, and extended equipment life.

Grade	4L	20L	200L	208L
100	-	✓	-	✓
150	-	✓	-	✓
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

Application: Recommended for reciprocating and rotary screw compressors operating with Liquefied Petroleum Gases (LPG) such as propane and butane; hydrocarbon gases like ethylene, propylene, and butylene; chemical gases including ammonia, vinyl chloride, and butadiene; and Liquefied Natural Gases (LNG) such as methane and ethane.

Grade	4L	20L	200L	208L
150	-	✓	-	✓
220	-	✓	-	✓
320	-	✓	-	✓
460	-	✓	-	✓
680	-	✓	-	✓
-	-	-	-	-

## SPECTRO CORE ONE GEAR-PAG

PAG Based Industrial Gear Oil

A fully synthetic, high-performance industrial gear oil formulated with polyalkylene glycol (PAG) base fluids. It delivers exceptional thermal and oxidative stability, superior load-carrying capacity, and ultra-low friction, particularly effective in steel/phosphor-bronze gear contacts. Engineered for high-temperature and extreme-duty applications, it ensures reliable performance where conventional mineral-based gear oils may fail.



Application: Designed for worm drives, bevel, and spur gears in severe conditions—high loads, temperature peaks, and corrosive environments. Ideal for worm gear use in material handling, packaging, mixers, press drives, escalators, and conveyors. Also suitable for gear and bearing systems in cement, metal, plastics, food, and textile industries.



## SPECTRO CORE ONE GEAR-PAO

PAO Based Industrial Gear Oil

A fully synthetic industrial gear oil formulated with premium Polyalphaolefin (PAO) base fluids and a high-performance additive package. It delivers superior thermal stability, excellent wear protection, and low-friction performance, making it ideal for heavily loaded gear systems operating across a wide temperature range. Its outstanding oxidative resistance and high viscosity index ensure consistent and reliable lubrication under severe operating conditions.

Grade	4L	20L	200L	208L
32	-	✓	-	✓
46	-	✓	-	✓
68	-	✓	-	✓
100	-	✓	-	✓
150	-	✓	-	✓
220	-	✓	-	✓
320	-	✓	-	✓
460	-	✓	-	✓
680	-	✓	-	✓
1000	-	✓	-	✓

Application: Recommended for all types of steel-on-steel gear drives. Suitable for applications requiring low-temperature fluidity (down to -40°C) as well as high-temperature performance (up to 120°C). Ideal for gears and circulation systems operating under high loads and unfavorable conditions, and for the lubrication of bearings and gears exposed to extreme temperatures.

# INDUSTRIAL LUBRICANTS



## SPECTRO LYN SOL D

Water Soluble Cutting Oil

A high-quality, general-purpose emulsifiable cutting oil formulated with highly refined paraffinic base stock and selected emulsifiers. It forms a stable, milky-white emulsion in both hot and cold water, providing excellent cooling, lubrication, and corrosion protection. Free from phenolic and cresylic compounds, it offers a safer and more operator-friendly solution for a wide range of metalworking applications.

Grade	4L	20L	200L	208L
-	✓	✓	-	✓
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

Application: Suitable for general machining of low to medium tensile ferrous and non-ferrous metals, including operations such as milling, turning, drilling, boring, and cold sawing. Can be used in both manual and centralized coolant systems. Recommended emulsion concentrations range between 20:1 and 30:1 based on application severity.

Grade	4L	20L	200L	208L
-	-	✓	-	✓
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

## SPECTRO CORE QUEN

Quenching Oil

A high-quality quenching oil blended from hydro-treated mineral base oils and selected additives to provide enhanced thermal and oxidative stability. It ensures controlled and uniform cooling during metal heat treatment processes. Its light viscosity enables rapid drainage from metal surfaces, minimizing oil carryout and improving operational efficiency.



Application: Delivers a high cooling rate to achieve optimal hardness and effective depth of hardening in steel components, making it ideal for use in heat treatment and quenching operations.



## SPECTRO OMNI SPIN

Spindle Oil

A series of premium-quality spindle lubricants formulated with highly refined mineral base oils and fortified with anti-wear, rust inhibitor, antioxidant, and anti-foam additives. Designed for high-speed, light-load applications, it offers excellent oxidation stability, thermal resistance, and rust protection. The low-viscosity formulation ensures rapid circulation and reliable performance in ultra-fast rotating spindles and precision machinery.

Grade	4L	20L	200L	208L
5	-	✓	-	✓
10	-	✓	-	✓
15	-	✓	-	✓
22	-	✓	-	✓
-	-	-	-	-

Application: Ideal for high-speed spindles in textile machinery, CNC equipment, and precision tools. Suitable for lightly loaded bearings, circulation systems requiring rust and oxidation protection, and automated machine tools operating at spindle speeds above 10,000 RPM. Also recommended for textile applications where lubricant contact with fabric must be minimal.

# MARINE OILS



Engineered for endurance - Marine Oils deliver optimum lubrication for trunk piston, cylinder, and outboard engines — ensuring clean performance, anti-corrosion protection, and durability in continuous marine duty.

# MARINE OILS



## SPECTRO ALFA 2T-MARINE TC-W3

Outboard Motor Oil

A premium two-stroke outboard engine oil formulated with advanced ashless detergent-dispersant chemistry to deliver superior cleanliness, lubricity, and wear protection. Developed through rigorous testing, it minimizes ring sticking, scuffing, and deposits while ensuring reliable performance in high-temperature engines using unleaded fuels. The formulation disperses quickly when mixed with fuel, keeping the blend stable for extended periods and ensuring consistent protection in modern marine engines.

Application: Suitable for use in all two-stroke outboard engines, either through direct injection or premixing with fuel at ratios up to 50:1, as recommended by many leading manufacturers.

Grade	1L	4L	20L	208L
NMMA	✓	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

Grade	4L	20L	200L	208L
30/05	-	-	✓	✓
40/5	-	-	✓	✓
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

## SPECTRO QUAD MARINE SYS

System Oil

High-quality system oil formulated for the crankcase lubrication of low-speed, crosshead marine diesel engines. It is blended from high-viscosity index mineral base oils and fortified with oxidation and corrosion inhibitors to ensure clean operation and reliable protection in prolonged service.



Application: Crankcase lubrication for low-speed crosshead marine engines. - Suitable for vessels using separate cylinder and system oil. - Ideal where minimal ash content and high thermal stability are needed.



## SPECTRO QUAD MARINE TPEO

Trunk Piston Engine Oil

This trunk piston engine oil is specifically developed for medium-speed diesel engines operating on residual fuels. It is engineered to deliver excellent protection in demanding environments, where engines are subjected to high mechanical loads and elevated thermal stress. The formulation provides robust acid neutralization to guard against corrosion caused by residual fuel combustion, while its strong thermal stability ensures consistent performance at prolonged high operating temperatures. In addition, it offers effective deposit control to minimize piston crown and ring groove fouling, extending engine cleanliness and efficiency. This balanced protection makes it highly suitable for marine, power generation, and industrial applications requiring reliability and long service intervals.

Application: Medium-speed trunk piston engines using heavy or hybrid fuels. - Marine propulsion or auxiliary engines operating on residual or IFO. - Designed for vessels where fuel cleanliness varies.

Grade	1L	4L	20L	208L
30/20	-	-	✓	✓
40/20	-	-	✓	✓
30/15	-	-	✓	✓
40/15	-	-	✓	✓
30/30	-	-	✓	✓
30/40	-	-	✓	✓
40/30	-	-	✓	✓
40/40	-	-	✓	✓
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

# MARINE OILS



## SPECTRO QUAD MARINE CYL 5040

Cylinder Oil

A high TBN marine cylinder lubricant for two-stroke crosshead engines using high-sulfur residual fuels. It ensures excellent acid neutralization, cleanliness, and thermal stability.

Grade	1L	4L	20L	208L
50/40	-	-	✓	✓
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

Application: Two-stroke marine engines on HFO ( $\geq 3.5\%$  sulfur). - Ideal for MAN ES and Wärtsilä engines. - Effective under slow steaming and variable load conditions.

Grade	1L	4L	20L	208L
50/70	-	-	✓	✓
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

## SPECTRO QUAD MARINE CYL 5070

Cylinder Oil

A premium marine cylinder oil formulated for severe conditions in two-stroke engines using high-sulfur HFO. Its high TBN ensures extended protection against liner wear, cold corrosion, and piston deposits.



Application: Marine crosshead engines burning  $>3.5\%$  sulfur fuels. - Long-haul voyages, low feed rate operation. - Suitable for MAN ES, WinGD, and Wärtsilä engine requirements.



## SPECTRO QUAD MARINE CYL 50100

Cylinder Oil

An ultra-high TBN marine cylinder lubricant designed to protect against cold corrosion in the most demanding slow-speed engines using very high sulfur fuels. Offers superior acid neutralization, extended drain intervals, and top-tier cleanliness.

Grade	1L	4L	20L	208L
50/100	-	-	✓	✓
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-

Application: Two-stroke marine engines operating on very high sulfur HFO. - For ultra-long voyages or cold corrosion-prone operations. - Ideal where OEMs recommend TBN 100 oils under reduced feed rate or slow steaming strategies.

# HYDRAULIC OILS



Engineered for fluid efficiency - Hydraulic Oils deliver smooth power transmission, excellent wear resistance, and outstanding oxidation stability for reliable operation across industrial and mobile systems.

# HYDRAULIC OILS



## SPECTRO CORE SYN AW

Synthetic Base (Anti-wear)

A super-performance anti-wear hydraulic oil formulated from synthetic base stocks and a carefully balanced anti-wear and antioxidant additive package. It offers outstanding shear stability, enabling use in high-pressure, high-temperature environments for extended periods without compromising critical lubrication characteristics. Its chemically stable nature resists varnish and sludge formation, ensuring reliable performance even under severe operating conditions where high levels of anti-wear protection and film strength are required.

Grade	4L	20L	208L
32	-	✓	✓
46	-	✓	✓
68	-	✓	✓
100	-	✓	✓
-	-	-	-

Application: Suitable for both high- and low-temperature hydraulic systems in industrial and mobile applications. Ideally suited for the lubrication of gear, vane, and piston pumps, as well as circulation systems, bearing systems, machine tools, and gear cases operating over a wide temperature range.

Grade	4L	20L	208L
10	-	✓	✓
15	-	✓	✓
22	-	✓	✓
32	-	✓	✓
46	-	✓	✓
68	-	✓	✓
100	-	✓	✓
150	-	✓	✓

## SPECTRO CORE VHI

Anti-wear High Viscosity Index

A premium zinc-based anti-wear high viscosity index hydraulic oil formulated with high-quality mineral base oils and advanced additive technology to deliver superior protection, thermal stability, and a high viscosity index. It ensures consistent performance across a wide temperature range, offering excellent fluidity in cold conditions and stable viscosity under high temperatures. This formulation enhances system efficiency, reduces wear, and extends equipment life even in severe operating conditions.



Application: Suitable for mobile and industrial hydraulic systems operating under extreme temperature variations, including construction and mining equipment (excavators, loaders, cranes), injection molding machines, high-pressure hydraulic presses, offshore and marine machinery, agricultural and forestry equipment, and advanced hydraulic systems with servo and proportional control valves.



## SPECTRO CORE VHI ZF

Zinc Free High Viscosity Index

A premium-grade, zinc-free, anti-wear hydraulic fluid formulated with a very high viscosity index (VHI) to deliver consistent performance across a wide temperature range. Blended with high-quality base oils and advanced additive technology, it features zinc-free anti-wear agents, oxidation inhibitors, corrosion protectants, and anti-foam additives. This formulation ensures outstanding thermal stability, excellent wear protection, and extended service life, particularly in equipment sensitive to zinc content such as those with silver-plated components.

Grade	4L	20L	208L
10	-	✓	✓
15	-	✓	✓
22	-	✓	✓
32	-	✓	✓
46	-	✓	✓
68	-	✓	✓
100	-	✓	✓
150	-	✓	✓

Application: Suitable for a wide range of industrial and mobile hydraulic systems operating under extreme temperature variations, including high-performance hydraulic equipment in manufacturing and construction, mobile machinery (cranes, excavators, forklifts), circulation and bearing lubrication systems, and machine tools and gear systems requiring HVLP fluids. Ideal for environmentally sensitive or equipment-specific applications requiring ashless performance.

# HYDRAULIC OILS



## SPECTRO CORE AW

Anti-wear

A premium-quality anti-wear hydraulic oil formulated with high viscosity index paraffinic base stocks and fortified with anti-wear, antioxidant, anti-rust, and anti-foam additives. It offers outstanding oxidation and thermal stability, ensuring reliable performance across a range of operating conditions. Designed to enhance the efficiency and longevity of hydraulic systems, it delivers dependable protection against wear and corrosion.

Application: Suitable for both high- and low-pressure hydraulic systems in industrial and mobile applications. Also recommended for use in circulation systems, bearing systems, machine tools, and gear cases.

Grade	4L	20L	208L
10	-	✓	✓
15	-	✓	✓
22	-	✓	✓
32	-	✓	✓
46	✓	✓	✓
68	✓	✓	✓
100	-	✓	✓
150	-	✓	✓
220	-	✓	✓
320	-	✓	✓

Grade	4L	20L	208L
10	-	✓	✓
15	-	✓	✓
22	-	✓	✓
32	-	✓	✓
46	-	✓	✓
68	-	✓	✓
100	-	✓	✓
150	-	✓	✓

## SPECTRO CORE ZF

Zinc Free Anti-wear

A premium-quality, zinc-free anti-wear hydraulic oil blended with high viscosity index paraffinic base stocks and fortified with anti-wear, antioxidant, anti-rust, and anti-foam additives. It offers outstanding oxidation resistance and thermal stability, ensuring reliable performance and extended service life across a range of demanding operating conditions.



Application: Suitable for both high- and low-pressure hydraulic systems in industrial and mobile applications. Also recommended for use in circulation systems, bearing systems, machine tools, and gear cases.



## SPECTRO CORE HD 10W API CF

Heavy Duty

Formulated with high-quality paraffinic base stocks and selected additives, this hydraulic oil offers reliable protection for hydraulic systems operating under light to moderate duty conditions. It provides good thermal stability, wear protection, and system cleanliness, ensuring smooth and efficient performance. Designed to meet the requirements of equipment manufacturers recommending oils conforming to API CF/SJ categories.

Grade	4L	20L	208L
10W	-	✓	✓
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Application: Suitable for hydraulic systems, construction equipment, and mobile equipment requiring SAE 10W and API CF/SJ performance level.

# HYDRAULIC OILS



## SPECTRO CORE S

General Purpose

A reliable hydraulic oil formulated with paraffinic base oils and an additive package designed to provide excellent protection against rust and oxidation. It is fortified with a zinc-based anti-wear agent to ensure enhanced durability and component protection. This oil offers dependable performance for standard hydraulic applications across a wide range of operating conditions.

Grade	4L	20L	208L
46	-	✓	✓
68	-	✓	✓
-	-	-	-
-	-	-	-
-	-	-	-

Application: Suitable for all industrial and mobile hydraulic system applications where standard hydraulic oil is recommended. Also appropriate for moderate-pressure gear, vane, and axial piston pumps, except those with silver-plated parts.

# SPECIALTY FLUIDS



Engineered for specialized performance - Specialty Fluids cover heat transfer, rust prevention, and pneumatic applications, offering superior protection, thermal stability, and clean operation in specialized environments.

# SPECIALTY FLUIDS



## SPECTRO CORE HTO

Heat Transfer Oil

A high-quality, hydrotreated mineral-based heat transfer fluid formulated for use in closed, oil-sealed, unpressurized systems. It offers excellent thermal and oxidative stability, a high flash point, low volatility, and minimal vapor pressure—reducing the risk of vapor lock, thermal cracking, and fluid loss. Its refined chemical composition and uniform molecular structure ensure consistent, long-lasting performance under continuous high-temperature operation.

Grade	20L	208L
22	✓	✓
32	✓	✓
46	✓	✓
68	✓	✓
-	-	-

Application: Recommended for closed-loop, unpressurized heat transfer systems in asphalt mixing and bitumen heating circuits; chemical processing; plastics manufacturing; die-casting; pharmaceuticals; and textiles. Suitable for systems requiring stable heat transfer at bulk oil temperatures up to 320°C.

Grade	20L	208L
32	✓	✓
-	-	-
-	-	-
-	-	-
-	-	-

## SPECTRO CORE HTO ST

Synthetic Heat Transfer Oil

A high-quality, hydrotreated hydrocarbon-based heat transfer fluid fortified with additives to ensure excellent thermal stability and long service life. It features low vapor pressure, outstanding low-temperature fluidity, and high specific heat and thermal conductivity across a wide temperature range—ensuring efficient heat transfer in both startup and continuous operation.



Application: Specially designed for closed, oil-sealed, unpressurized heat transfer systems operating at bulk oil temperatures up to 320 °C. Suitable for industrial heating systems requiring stable performance and energy-efficient thermal conductivity.



## SPECTRO CORE HTO ZX

Heat Transfer Oil

A high-quality, highly refined paraffinic mineral oil designed for efficient and stable performance in heat transfer systems. With a uniform chemical composition and natural oxidation stability, it offers a high flash point, low volatility, and excellent thermal conductivity—ensuring reliable heat transfer across a wide operating temperature range.

Grade	20L	208L
22	✓	✓
32	✓	✓
46	✓	✓
68	✓	✓
-	-	-

Application: Recommended for use in closed, oil-sealed, unpressurized heat transfer systems operating at bulk oil temperatures up to 320°C. Ideal for industrial applications requiring consistent heat transfer and long fluid life under controlled thermal conditions.

# SPECIALTY FLUIDS



## SPECTRO OMNI RSO 1290

Mould Release Agent

An environmentally friendly mould lubricant derived from high-glycosylate ester base oils and blended with top-quality semi-synthetic base fluids. It ensures a clean, smooth mould release, excellent surface finish, and reliable oxidation stability—making it suitable for demanding casting operations.

Grade	20L	208L
-	-	✓
-	-	-
-	-	-
-	-	-
-	-	-

Application: Primarily recommended as a mould lubricant to prevent cast billets from adhering to mould surfaces. Successfully used in steel and concrete moulding industries for consistent release performance and reduced residue buildup.

Grade	20L	208L
-	-	✓
-	-	-
-	-	-
-	-	-
-	-	-

## SPECTRO OMNI RSO 1270

Mould Release Agent

An environmentally friendly mould lubricant derived from high-glycosylate ester base oils and blended with top-quality semi-synthetic base fluids. It ensures a clean, smooth mould release, excellent surface finish, and reliable oxidation stability—making it suitable for demanding casting operations.



Application: Primarily recommended as a mould lubricant to prevent cast billets from adhering to mould surfaces. Successfully used in steel and concrete moulding industries for consistent release performance and reduced residue buildup.

Grade	20L	208L
-	-	✓
-	-	-
-	-	-
-	-	-
-	-	-



## SPECTRO OMNI RSO 1260

Mould Release Agent

An environmentally friendly mould lubricant derived from high-glycosylate ester base oils and blended with top-quality semi-synthetic base fluids. It ensures a clean, smooth mould release, excellent surface finish, and reliable oxidation stability—making it suitable for demanding casting operations.

Application: Primarily recommended as a mould lubricant to prevent cast billets from adhering to mould surfaces. Successfully used in steel and concrete moulding industries for consistent release performance and reduced residue buildup.

# SPECIALTY FLUIDS



## SPECTRO OMNI MRO

Mould Release Agent

A high-performance mould release oil formulated with refined base oils and a proprietary release agent to ensure clean, smooth separation between concrete and formwork. It improves surface finish, reduces defects, and enhances the efficiency of precast concrete operations by minimizing sticking, staining, and rework.

Grade	20L	208L
320	✓	✓
-	-	-
-	-	-
-	-	-
-	-	-

Application: Suitable for use in precast concrete production involving steel, plastic, timber, or composite moulds. Effective on both vertical and horizontal surfaces, and can be applied by spray, brush, or roller. Ideal where a light, uniform film is required for consistent release and superior surface quality.

Grade	20L	208L
32	✓	✓
-	-	-
-	-	-
-	-	-
-	-	-

## SPECTRO CORE RP

Rust Preventive Oil

A rust preventative oil formulated with high-quality hydrotreated mineral base oils and fortified with selected additives to provide excellent protection against rust, corrosion, and oxidation during storage and transit.



Application: Suitable for protecting a wide range of metals including ferrous alloys, copper, aluminum, galvanized steel, and cast iron. Compatible with aluminum and engine components, it serves as a cost-effective rust preventative solution for automotive suppliers and general industrial use.



## SPECTRO OMNI W-PM

White Oil

A series of highly refined, odorless, tasteless, and colorless mineral white oils derived from premium high-viscosity index base stocks. These oils are processed to achieve exceptional purity, meeting stringent pharmacopeia and food-grade standards. Their excellent chemical stability, low volatility, and non-reactive nature make them ideal for applications requiring high cleanliness and safety.

Grade	20L	208L
15	✓	✓
22	✓	✓
32	✓	✓
68	✓	✓
75	✓	✓

Application: Used in pharmaceuticals and cosmetics as a base for creams and lotions; in food processing equipment with incidental contact (NSF H1-grade available); and in plastics, textiles, and agriculture as a plasticizer, lubricant, or carrier oil. Also suitable for specialty chemicals, cleaners, and submersible pumps where white oil is recommended.

# SPECIALTY FLUIDS



## SPECTRO OMNI ATO

Pneumatic Tool Oil

A premium-quality, high viscosity index mineral oil formulated for pneumatic and hydraulic systems operating across a wide temperature range. Enhanced with anti-wear, antioxidant, and anti-foam additives, it ensures reliable performance, extended equipment life, and smooth operation under demanding conditions.

Grade	20L	208L
22	✓	✓
32	✓	✓
46	✓	✓
100	✓	✓
150	✓	✓
220	✓	✓
320	✓	✓

Application: Recommended for use in the lubrication of pneumatic tools such as jackhammers, quarry drills, impact wrenches, and rivet hammers. Suitable for both high- and low-temperature hydraulic systems in industrial and mobile equipment.

# ANCILLARY PRODUCTS



Engineered for total system care - Ancillary Products include coolants, cleaning and flushing fluids, calibration oils, brake fluids, and diesel exhaust fluids that ensure efficient cooling, precise operation, and long-term protection of vital engine and vehicle components.

# ANCILLARY PRODUCTS



## SPECTRO OMNI ANTI-FREEZE 50

Coolant

A high-quality, ready-to-use coolant formulated with a 50:50 blend of ethylene glycol (MEG) and demineralized water. It provides superior freeze and boil-over protection while preventing corrosion, cavitation, and scale buildup in engine cooling systems. Based on Organic Acid Technology (OAT), it uses a Nitrite-, Amine-, Silicate-, Phosphate-, and Borate-free inhibitor system for long-lasting protection and compatibility. No dilution required—ensuring convenience and consistent performance in all seasons.

Grade	4L	20L	200L
-	✓	-	✓
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Application: Suitable for use in passenger cars, trucks, buses, and heavy-duty commercial vehicles; construction, agricultural, and mining equipment; industrial cooling systems and stationary engines; marine and generator cooling systems; and OEM-specified systems requiring a 50:50 MEG-water coolant mix.

Grade	4L	20L	200L
-	✓	-	✓
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

## SPECTRO OMNI EXTENDED LIFE 50

Coolant

A ready-to-use, pre-mixed (50/50) ethylene glycol-based engine coolant formulated with Organic Acid Technology (OAT) corrosion inhibitors. Completely nitrite-free and silicate-free, it provides long-lasting protection to all metals found in modern engine cooling systems, including aluminum and light alloys. Mixed with high-purity deionized water, it minimizes scale formation and ensures maximum heat transfer efficiency. Complies with BS 6580 and SAE J1034 standards for extended coolant life and performance.



Application: Suitable for use in passenger cars, commercial vehicles, off-road equipment, and both diesel and gasoline engines requiring long-drain interval coolants. Ideal for OEM systems that specify OAT-type formulations and mixed-metal cooling systems.



## SPECTRO OMNI ANTI-FREEZE 70-30

Coolant

A high-quality, ready-to-use coolant formulated with a 70:30 blend of ethylene glycol (MEG) and demineralized water. This pre-mixed coolant offers enhanced freeze and boil-over protection while preventing corrosion, cavitation, and scale buildup. Based on Organic Acid Technology (OAT), it features a Nitrite-, Amine-, Silicate-, Phosphate-, and Borate-free inhibitor system for long-lasting protection of all cooling system metals. The formulation ensures consistent performance and eliminates the need for on-site dilution.

Grade	1L	20L	200L
-	-	✓	✓
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Application: Suitable for use in passenger cars, trucks, buses, and heavy-duty commercial vehicles; construction, agricultural, and mining equipment; industrial cooling systems and stationary engines; and OEM-specified systems requiring a 70:30 MEG-water coolant mixture.

# ANCILLARY PRODUCTS



## SPECTRO OMNI ANTI-FREEZE 100

Coolant

A concentrated, ethylene glycol-based radiator coolant formulated with high-performance additives to protect engine cooling systems from rust, corrosion, and deposits. Designed for dilution with deionized or demineralized water, it ensures efficient heat transfer at high operating temperatures and provides reliable freeze and boil-over protection. For optimal performance, recommended dilution ratios range from 50:50 to 60:40.

Grade	1L	20L	200L
-	-	✓	✓
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Application: Intended for dilution prior to use. Recommended for radiator cooling systems in liquid-cooled internal combustion engines, including passenger and commercial vehicles; heavy-duty stationary diesel engines with wet liners; and marine engine cooling systems operating in all weather conditions.

Grade	4L	20L	208L
-	✓	✓	✓
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

## SPECTRO OMNI ENGINE FLUSH

Advanced Engine Cleaning Solution

A high-quality, low-viscosity flushing fluid designed to clean internal surfaces of automotive engines. Formulated with refined mineral base oils and a blend of detergents and dispersants, it safely dissolves sludge, varnish, carbon deposits, and oxidation by-products. It ensures efficient removal of contaminants before fresh oil fill, helping extend engine life and maintain optimal performance. Offers excellent thermal stability, seal compatibility, and safe operation without harming sensitive engine components.



Application: Recommended for automotive engine flushing during oil changes. For best results, circulate at operating temperature for 15–30 minutes before draining.



## SPECTRO OMNI FLUSH-HP

System Flushing

A light mineral-based flushing oil designed for effective internal cleaning of lubricated systems prior to an oil change or lubricant upgrade. Its low viscosity and excellent solvency properties make it ideal for removing residual oil, varnish, carbon, and other particulate deposits from oil-wetted components. Formulated with high-purity base oils and superior thermal stability, it enables fast, high-flow system circulation and ensures thorough contaminant removal without compromising seals, pumps, or internal surfaces.

Grade	1L	20L	208L
-	-	✓	✓
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Application: Recommended for use in compressors (screw, reciprocating, rotary vane), hydraulic systems, transmissions, gearboxes, differentials, final drives, and circulating or closed-loop oil systems in industrial settings. Particularly effective during oil conversions or lubricant upgrades where avoiding cross-contamination is critical to maintaining performance.

# ANCILLARY PRODUCTS



## SPECTRO OMNI CALIB FIS

Calibration Oil

A highly refined, paraffinic, low-viscosity mineral oil formulated for the testing and calibration of diesel fuel injection systems. It contains rust, corrosion, and foam inhibitors to protect fuel system components and ensure accurate calibration performance.

Grade	1L	20L	208L
-	-	✓	✓
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Application: Designed for use in diesel fuel injection test benches and calibration equipment where controlled viscosity and specific gravity are critical for reliable and repeatable results.

Grade	1L	20L	208L
-	-	✓	✓
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

## SPECTRO OMNI CALIB

Calibration Oil

A premium-quality, highly refined low-viscosity mineral oil specifically developed for the testing and calibration of diesel fuel injection systems. Formulated with paraffinic base oils and a precise additive package, it ensures accurate, repeatable test results while protecting sensitive components from wear, rust, and corrosion. With tightly controlled viscosity, density, and lubricity, it meets ISO 4113 standards—making it ideal for precision diagnostics and calibration work.



Application: Recommended for diesel injector and pump test benches, OEM or workshop fuel system calibration, simulated engine diagnostics for common rail, rotary, and inline pumps, and any test environment requiring high flash point and low aromatic content.



## SPECTRO NITRO BLUE

Diesel Exhaust Fluid

A high-quality diesel exhaust fluid (DEF) specifically designed for vehicles equipped with Selective Catalytic Reduction (SCR) systems. It effectively reduces nitrogen oxide (NOx) emissions, supporting environmental compliance with stringent emission regulations. Formulated with 32.5% high-purity technical urea dissolved in demineralized water, it meets ISO 22241-1 standards and undergoes strict quality control to ensure consistent purity, stability, and performance.

Grade	1L	20L	200L
-	-	✓	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Application: Typically consumed at a rate of 4–6% of diesel fuel usage, equivalent to approximately 4–6 liters per 100 liters of fuel burned, depending on engine type and operating conditions.

# ANCILLARY PRODUCTS



## SPECTRO OMNI DOT 4

Brake Fluid

A high-performance, heavy-duty DOT 4 brake and clutch fluid formulated with premium polyglycol ethers and advanced additives. It delivers consistent performance in hydraulic systems, offering high boiling points, excellent corrosion protection, and superior lubricity. Designed to ensure safe, reliable braking and clutch operation under both standard and extreme driving conditions.

Grade	250ML	20L	208L
DOT 4	✓	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

Application: Suitable for disc and drum brake systems in passenger cars, commercial vehicles, and motorcycles, as well as hydraulic clutch systems where DOT 4 or SAE J1703 fluids are specified. Ideal for vehicles operating under high-load, high-temperature environments, including ABS-equipped and modern brake systems that demand low compressibility and thermal stability. Also applicable in select marine and generator cooling systems requiring glycol-based fluids.

Grade	1L	20L	200L
-	✓	✓	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

## DISTILLED WATER

Distilled Water

Distilled Water is a high-quality demineralized water with very low mineral content (TDS < 10 ppm, conductivity < 50  $\mu$ S/cm, pH ~5.5 - 6.9). It protects equipment from scale and deposits caused by dissolved salts. Specially packed in 1-liter and 20 liter containers for convenient handling and storage. Not suitable for pharmaceutical manufacturing or human consumption.



Applications: Recommended for batteries, radiators, cooling systems, and mixing with coolants or chemical concentrates. Also suitable for autoclaves, steam sterilizers, non-sterile equipment rinsing, and laboratory baths or incubators.

# GREASES



Engineered for enduring protection - Greases provide superior resistance to water washout, extreme pressure, and temperature variations. They ensure reliable lubrication, reduced wear, and long service life for bearings, joints, and heavy-duty mechanical systems.

# GREASES



## SPECTRO LUMI MPCL

Multi-Purpose Grease

A high-performance, calcium-lithium soap-based multi-purpose grease fortified with anti-wear, anti-rust, antioxidant, and anti-corrosion additives. Engineered to perform under heavy and shock load conditions, it offers excellent water resistance, making it ideal for use in environments exposed to moisture and contamination.

Grade	400 g	1 Kg	5 Kg	15 Kg	180 Kg
NLGI 2	-	-	-	✓	✓
NLGI 3	-	-	-	✓	✓
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-

Application: Suitable for automotive applications such as wheel bearings, ball joints, and chassis components; industrial machinery including screws, nuts, Babbitt bearings, presses, shearing lines, and rolling mills; and wet or humid environments where water ingress is a concern. Effective across a temperature range of -20°C to +120°C for both plain and rolling element bearings under demanding conditions.

Grade	400 g	1 Kg	5 Kg	15 Kg	180 Kg
NLGI 2/3	-	✓	✓	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-

## SPECTRO LUMI AUTOPLEX

General Purpose Grease

A high-quality, calcium-lithium soap-based general-purpose grease formulated for automotive and industrial equipment lubrication. It is blended with highly refined base oils and fortified with antioxidant, anti-rust, and anti-corrosion additives to ensure excellent mechanical stability and oxidation resistance. Its superior water washout resistance makes it ideal for use in wet or humid environments.



Application: Designed for general automotive use and suitable for a wide range of industrial applications including electric motor bearings, fan bearings, pump bearings, and other plain and anti-friction bearing systems. Performs reliably under severe shock loads and across a broad temperature range up to 120°C.



## SPECTRO LUMI EP

Extreme Pressure Grease

A premium-quality, lithium-based extreme pressure (EP) grease designed to provide superior lubrication and protection in demanding heavy-duty applications. Formulated with highly refined mineral base oils, EP additives, and oxidation inhibitors, it delivers excellent load-carrying capacity, wear resistance, and water washout protection. Its outstanding mechanical stability ensures prolonged service life in high-load and shock-load conditions.

Grade	400 g	1 Kg	5 Kg	15 Kg	180 Kg
00	-	-	-	✓	✓
0	-	-	-	✓	✓
1	-	-	-	✓	✓
2	✓	-	-	✓	✓
3	-	-	-	✓	✓

Application: Recommended for automotive applications such as wheel bearings, ball joints, suspension systems, and chassis linkages; plain and roller bearings under high pressure and elevated temperatures; industrial machinery including mill screws, press machines, Babbitt and brass bearings, shearing lines, and roll neck bearings in steel mills; and off-road or heavy-duty equipment operating in wet, dusty, or corrosive environments.

# GREASES



## SPECTRO ONE LUMI L-EP

Lithium Complex Extreme  
Pressure Grease

A premium-quality, high-performance lubricating grease formulated with a lithium complex thickener, high-viscosity base oils, and advanced additive technology. It provides exceptional thermal and mechanical stability, outstanding resistance to water washout, and superior load-carrying and anti-wear performance. Ideal for demanding applications requiring long service life and reliable lubrication under extreme conditions.

Grade	400 g	1 Kg	5 Kg	15 Kg	180 Kg
2	✓	-	-	✓	✓
3	✓	-	-	✓	✓
-	-	-	-	-	-
-	-	-	-	-	-
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Application: Suitable for automotive, industrial, and heavy-duty applications where high temperature, heavy loads, and moisture resistance are critical. Typical uses include bearings and bushings under high loads, wheel bearings (including disc brake systems), chassis lubrication in trucks and off-highway equipment, electric motor bearings, sealed-for-life applications, and heavy-duty industrial machinery such as conveyors, crushers, and gear couplings. Also recommended for marine, mining, and construction equipment exposed to water and contaminants.

## HIGH PERFORMANCE PROTECTION FOR ALL APPLICATIONS



At QALCO Energy®, we deliver a comprehensive portfolio of lubricants, oils, greases, and specialty fluids — engineered to meet the diverse needs of automotive, industrial, marine, and energy sectors. From everyday vehicles to heavy-duty equipment, our products are designed for performance, protection, and reliability.