



MARINE PRODUCTS

TRIED AND TRUE.
RELIABILITY YOU CAN
COUNT ON.





ALCO LLC is a globally recognized lubricating oil manufacturer, with a robust presence in over 52 countries across four continents. From Americas to Africa, and Europe to Asia, our products are trusted by industries and consumers alike for their superior performance and reliability.

Operating in a tax-exempt free economic zone, we ensure competitive pricing and streamlined logistics to meet global demands efficiently.

At **ALCO**, we are committed to delivering top-quality lubricants, formulated using only the finest additives from leading suppliers such as **Lubrizol, Afton Chemical, Infineum, and Chevron**. Our base oils come directly from industry giants like **Exxon Mobil** and **Chevron**, ensuring the highest standards of quality across our product range. With cutting-edge facilities, state-of-the-art technology, and a highly skilled engineering team, we optimize production costs while maintaining precision in manufacturing.

As a trusted partner to many Original Equipment Manufacturers (OEMs), including **Wärtsilä, Caterpillar (CAT), MAN Diesel & Turbo, WinGD, J-ENG** our products consistently meet the stringent requirements needed to keep industrial engines and machinery performing at their best. These OEM approvals indicate that **Aminol** lubricants are rigorously tested to ensure compatibility and optimal performance in industrial applications, ranging from heavy-duty construction and mining equipment to precision manufacturing and automation systems.

Our **OEM** endorsements confirm that **AMINOL** lubricants undergo rigorous testing, ensuring compatibility and superior performance.

Our logistics division ensures efficiency, door-to-door delivery through partnerships with major shipping lines, providing seamless access to key markets and minimizing downtime.

When you choose **AMINOL**, you're opting for lubricants that meet the industry's highest standards, enabling your machinery to handle even the toughest conditions with ease.





THE POWER BEHIND PROVEN PERFORMANCE.

Certifications and International Standards

Aminol aims to demonstrate to consumers worldwide that lubricants manufactured in Azerbaijan are on par with or exceed **Original Equipment Manufacturer (OEM)** requirements. This commitment is reflected in the numerous certifications and approvals Aminol has achieved from leading international standard-setting organizations.



American
Petroleum
Institute

ILSAC

acea
DRIVING MOBILITY FOR EUROPE

SAE
INTERNATIONAL®



UKLA
UNITED KINGDOM LUBRICANTS ASSOCIATION



With a total investment of **20 million USD**, the plant has a yearly production capacity of **150,000 tons**. Production is focused on motor oils for passenger and industrial vehicles; **motorcycle, hydraulic, transmission, compressor, turbine, and marine oils. Antifreeze, AdBlue** and other liquid engineering solutions are also manufactured.

Strategic Partnerships and Distribution

A key element of Aminol's export success lies in its strategic partnerships with local distributors and retailers. These collaborations ensure that Aminol's products are readily available and supported by expert customer service in every market. The brand invests in training programs for its partners, ensuring they are well-versed in the technical aspects of Aminol products and can provide superior service to end-users.

Customer Support and Future Developments

Aminol offers end-to-end customer support, with a dedicated team managing shipments and addressing logistical challenges. Looking forward, Aminol is investing in digital supply chain technologies and expanding its distribution network to reach new markets. By continuously enhancing its logistics operations, Aminol ensures its lubricants are delivered with the utmost reliability and excellence worldwide.

Direct Contracts with the Main Shipping Lines

The brand intends to strengthen existing partnerships and forge new alliances with global logistics providers, ensuring reliable and cost-effective transportation solutions across all markets. This will also include expanding its network of suppliers to safeguard against disruptions and maintain a steady flow of raw materials.

Export Markets



UK



GERMANY



AUSTRIA



SPAIN



ITALY



GREECE



FINLAND



ESTONIA



LATVIA



SLOVAKIA



HUNGARY



CROATIA



ALBANIA



BULGARIA



ROMANIA



MOLDOVA



UKRAINE



TURKEY



LEBANON



IRAQ



ISRAEL



UAE



ALGERIA



MOROCCO



KENYA



SOUTH AFRICA



GEORGIA



TURKMENISTAN



UZBEKISTAN



KAZAKHSTAN



BRAZIL



COLOMBIA



DRIVING RELIABILITY ACROSS BORDERS

Global Reach and Market Presence

Aminol's export market covers a wide geographic area, including key regions such as **Europe, the Middle East, Asia, Africa, and Latin America**. Each market presents unique challenges. Aminol meets diverse market demands with tailored solutions and extensive product testing.

**NAVIGATING
EFFICIENCY AT SEA**

AMINOL MARINE LUBRICANTS

**ADVANCED SOLUTIONS
FOR SUSTAINABLE AND
RELIABLE MARINE
OPERATIONS**

Discover how Aminol can enhance your fleet's performance while protecting the oceans.

AMINOL ADVANTAGE IN MARINE SOLUTIONS

A Global Leader in Marine Lubricants

Aminol understands that the marine industry's future lies in efficiency, sustainability, and innovation.

We deliver high-performance lubricants to over 50 countries and more than 20 renowned lubricant manufacturers globally in bulk from Azerbaijan.

Our marine oils power vessels across Europe, the Mediterranean, the Caspian Sea, and beyond. Partnering with leading additive suppliers like **Chevron, Lubrizol, and Afton**, we ensure that each formulation meets and exceeds OEM requirements.

Research & Development:

Aminol owns patents from multiple R&D programs, focusing on improving lubrication technology for marine engines.

Commitment to Sustainability:

Our low-SAPS formulations comply with IMO 2020 standards, reducing sulfur emissions.

OEM Partnerships:

We work closely with marine OEMs to ensure our products are always one step ahead of evolving technical requirements.

MARINE LOGISTICS SUSTAINABILITY

Safeguarding Oceans with Aminol's Innovations

The shipping industry is responsible for over 80% of global trade. As maritime transport grows, so does its environmental impact. Aminol is committed to reducing the carbon footprint of marine operations through advanced lubrication solutions.



Reducing Emissions

Aminol's low-sulfur products help operators cut SOx emissions by up to 10%.



Energy Savings

Switching to Aminol lubricants can lead to a 4% increase in fuel efficiency, saving up to \$20,000 annually per vessel.



Durability

Our advanced formulations extend engine life, reducing maintenance needs and cutting overall costs.

PRODUCT RANGE OVERVIEW

Tailored Solutions for Every Vessel

Top Popular Marine Lubricants From Our Portfolio



Aminol™ Nauta C40

For two-stroke engines, offering enhanced wear protection and deposit control.



Aminol™ Nauta T3030

Premium trunk piston engine oil for four-stroke engines, ensuring stability under high temperatures.



Aminol™ Marine Gear Oil MGO 220

Ensures smooth operation in marine gear systems, reducing friction and wear.



Aminol™ Hydraulic Oil HLP Marine 46

Reliable performance for hydraulic systems, with superior anti-wear properties.



Aminol™ Stern Tube Lubricant ST-300

Prevents water ingress in stern tubes, extending shaft life.



Aminol™ Marine Turbo Oil T-75

Optimizes turbocharger performance, reducing deposit formation.



Aminol™ Marine Bio-Hydraulic Oil 68

Environmentally friendly hydraulic oil for sensitive marine areas.



A Marine Vessel with Aminol Solutions

ADDITIONAL PRODUCTS TO EXPLORE:

TRUNK PISTON ENGINE OIL

Aminol™ Nauta T3015
Aminol™ Nauta T4015
Aminol™ Nauta T4055
Aminol™ Nauta T4030
Aminol™ Nauta T3040
Aminol™ Nauta T3030
Aminol™ Nauta T4040
Aminol™ Nauta T3020
Aminol™ Nauta T4020
Aminol™ Nauta T3012
Aminol™ Nauta T4012
Aminol™ Nauta T3055

CYLINDER OIL

Aminol™ Nauta C25
Aminol™ Nauta C40
Aminol™ Nauta C55
Aminol™ Nauta C70
Aminol™ Nauta C100
Aminol™ Nauta C140

SYSTEM OIL (CRANCASE)

Aminol™ Nauta S20
Aminol™ Nauta S30
Aminol™ Nauta S40



1. SLOW-SPEED ENGINES

1.1 Lubricants for Slow-Speed Marine Engines

Aminol™ Nauta C40

Description:

High-performance cylinder oil designed for slow-speed, two-stroke engines. Offers exceptional protection against high-temperature deposits and wear.

Benefits:

Enhances piston cleanliness, extends oil drain intervals up to 600 hours, and reduces liner scuffing.

Applications:

Ideal for large cargo vessels, container ships, and bulk carriers operating at slow speeds.



Aminol™ Nauta C70 Plus

Description:

Premium oil for engines requiring higher base number (BN) to neutralize sulfuric acid formation.

Benefits:

Provides superior neutralization capacity, extending liner life and protecting against corrosive wear.

Applications:

Suited for vessels using high-sulfur fuels or operating in extreme marine conditions.



1.2 Key Advantages of Aminol Lubricants for Slow-Speed Engines

Optimal TBN (Total Base Number)

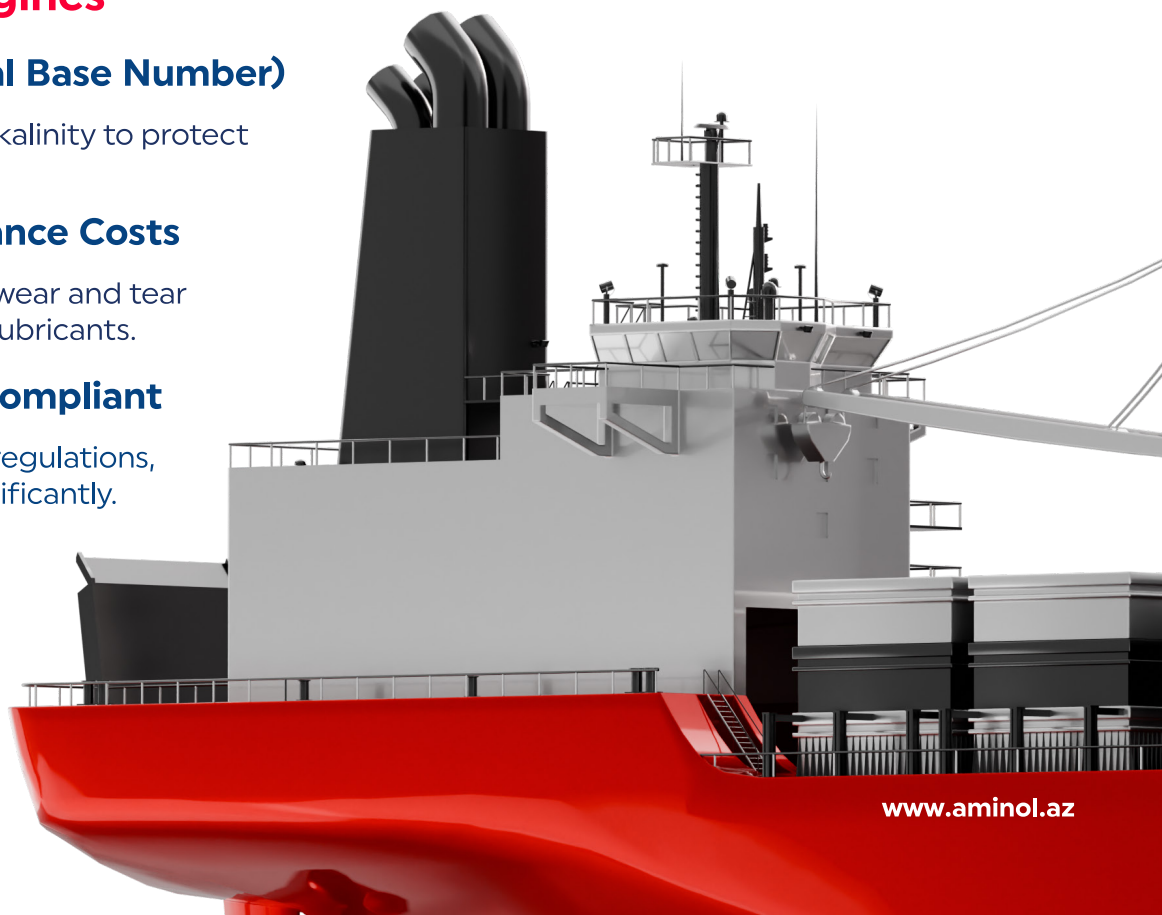
Maintains the correct alkalinity to protect against corrosion.

Reduced Maintenance Costs

Up to 20% reduction in wear and tear compared to standard lubricants.

Environmentally Compliant

Meets IMO 2020 sulfur regulations, reducing emissions significantly.



2: MEDIUM-SPEED ENGINES

2.1. Lubricants for Medium-Speed Marine Engines

Aminol™ Nauta T3030

Description:

A versatile trunk piston engine oil (TPEO) for medium-speed, four-stroke engines operating on both heavy fuel oil (HFO) and distillates.

Benefits:

Ensures excellent thermal stability, piston cleanliness, and oxidation resistance.

Applications:

Suitable for ferries, offshore supply vessels, and cruise ships.



Aminol™ Nauta T4055

Description:

High-alkaline TPEO for engines with high load factors, offering advanced deposit control and wear resistance.

Benefits:

Extends oil life and supports longer maintenance intervals.

Applications:

Ideal for tankers, fishing fleets, and other vessels with frequent load variations.



2.2. Key Advantages of Aminol Lubricants for Medium-Speed Engines

Extended Drain Intervals

Reduces downtime and labor costs with longer oil life.

Compatibility with Fuels

Formulated to handle a wide range of fuels, from HFO to low-sulfur distillates.

Enhanced Oxidation Control

Minimizes sludge formation, ensuring efficient engine performance.



3: HIGH-SPEED ENGINES

3.1. Lubricants for High-Speed Marine Engines

Aminol™ Marine Oil HSP 10W-40

Description:

Synthetic blend oil designed for high-speed engines operating at high RPMs, providing maximum protection against heat and wear.

Benefits:

Excellent cold flow properties, reduced oil consumption, and outstanding anti-wear performance.

Applications:

Suitable for patrol boats, high-speed ferries, and luxury yachts.



Aminol™ Marine Oil HSP 5W-30

Description:

Fully synthetic oil for modern, high-performance engines requiring low-viscosity formulations for improved fuel efficiency.

Benefits:

Enhances fuel economy by up to 3%, offering fast start-up protection.

Applications:

Ideal for high-speed recreational boats and small commercial vessels.



Aminol™ Marine Oil 15W-40 CK-4

Description:

A heavy-duty engine oil designed for modern marine diesel engines, offering superior deposit control and oxidation resistance.

Benefits:

Enhanced durability for high-output engines.
Excellent wear protection in severe conditions.
Ideal for extended oil change intervals.

Applications:

Suitable for marine vessels using advanced turbocharged diesel engines under heavy loads.



Aminol™ Marine Oil 15W-40 CI-4

Description:

Formulated for older marine diesel engines, this oil delivers consistent performance and effective protection against deposits.

Benefits:

Strong resistance to oil breakdown.
Effective in engines using fuels with moderate sulfur content.
Reliable for high-temperature applications.

Applications:

Recommended for vessels operating under medium to heavy-duty conditions.

3.2. Key Advantages of Aminol Lubricants for High-Speed Engines

Fuel Economy Improvements

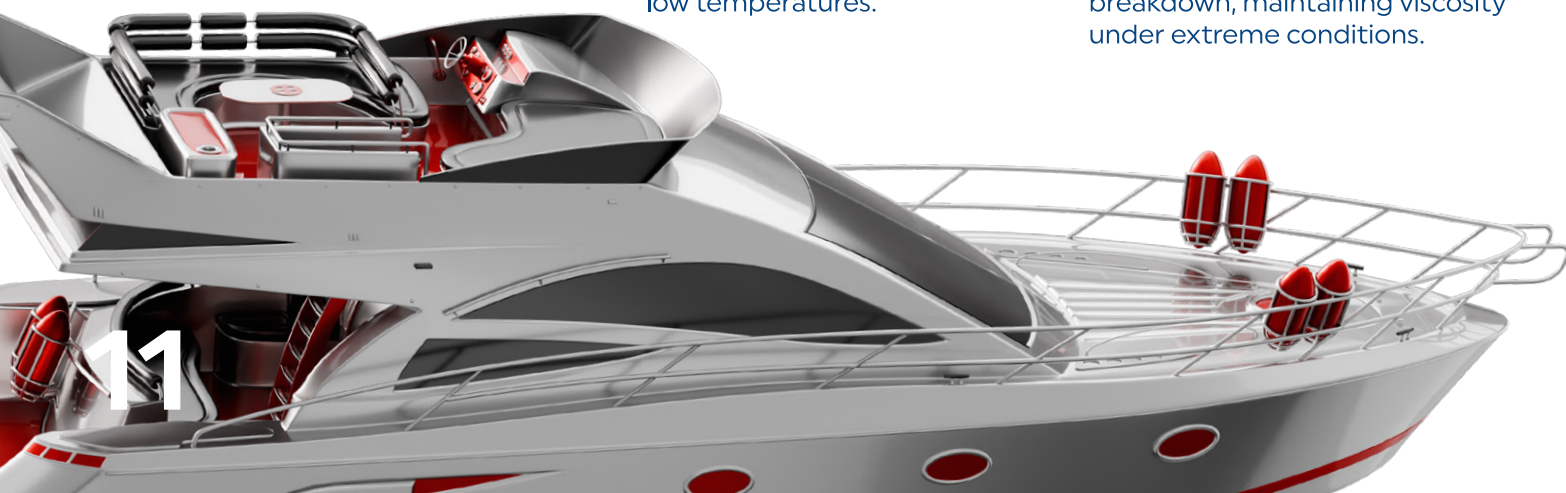
Achieve up to 3% savings in fuel consumption.

Excellent Cold Start Performance

Ensures quick oil flow even in low temperatures.

Enhanced Engine Protection

Protects against thermal breakdown, maintaining viscosity under extreme conditions.



4: SPECIAL APPLICATIONS

4.1. Lubricants for Auxiliary Equipment

Aminol™ Hydraulic Oil HVLP Marine 68

Description:

High-viscosity hydraulic oil tailored for deck cranes, winches, and steering gears, ensuring reliable performance under varying conditions.

Benefits:

Superior anti-wear properties, extended service life, and excellent stability across a wide range of temperatures.

Applications:

Ideal for heavy-duty hydraulic systems across various marine vessels.



Aminol™ Stern Tube Lubricant ST-300

Description:

Designed for stern tubes and bearings, offering water resistance and long-term stability.

Benefits:

Prevents water ingress, reduces friction, and extends the life of shaft seals.

Applications:

Suitable for propeller shaft lubrication in commercial vessels.



4.2. Specialty Greases for Marine Applications

Aminol™ Marine Grease GP-Xtreme

Description:

A multi-purpose, water-resistant grease for heavy-duty applications.

Benefits:

Protects against corrosion, even in saltwater environments.

Applications:

Ideal for deck equipment, cranes, and other exposed mechanical parts.



Aminol™ Marine Bio-Grease

Description:

Biodegradable grease for environmentally sensitive areas.

Benefits:

Provides high performance while minimizing environmental impact.

Applications:

Suitable for ports, marinas, and coastal operations.



COMPARATIVE ANALYSIS – THE AMINOL EDGE

Aminol vs. Competitors

A Clear Choice for Marine Efficiency

| Feature | Marine Oil C40 | Competitor A | Competitor B |
|-----------------------------|-----------------|--------------|--------------|
| Oil Drain Interval | Up to 600 hours | 500 hours | 520 hours |
| Piston Cleanliness | 95% | 88% | 90% |
| Fuel Efficiency Improvement | 4% | 2% | 3% |
| Annual Cost Savings | \$15,000 | \$10,000 | \$12,000 |

TECHNICAL CHARACTERISTICS

5.1. Cylinder Oils for Slow-Speed Engines

| PRODUCT | SAE GRADE | VISCOSITY @ 100°C (CST) | TOTAL BASE NUMBER (TBN) | FLASH POINT (°C) | POUR POINT (°C) | APPLICATION |
|---------------------|-----------|-------------------------|-------------------------|------------------|-----------------|--|
| Nauta HR 70 | SAE 50 | 20 | 70 | min 220 (°C) | -9 (°C) | For crosshead engines using high-sulfur heavy fuel oil (HFO), ensuring engine cleanliness and acid neutralization. |
| Nauta Universal 100 | SAE 50 | 19 | 100 | min 230 (°C) | -9 (°C) | Ideal for high-performance marine engines, suitable for varying sulfur fuels and scrubber-equipped systems. |
| Nauta LS 25 | SAE 50 | 19 | 25 | min 230 (°C) | -10 (°C) | Optimized for engines using low-sulfur fuel oil (LSFO), providing corrosion protection and deposit control. |

5.2. Trunk Piston Engine Oils (TPEO) for Medium-Speed Engines

| PRODUCT | SAE GRADE | VISCOSITY @ 100°C (CST) | TOTAL BASE NUMBER (TBN) | FLASH POINT (°C) | POUR POINT (°C) | APPLICATION |
|-------------|-----------|-------------------------|-------------------------|------------------|-----------------|---|
| Nauta T3030 | SAE 30 | 12.2 | 30 | 225 | -18 | Suitable for four-stroke engines operating on HFO and MDO. Excellent deposit control. |
| Nauta T4055 | SAE 40 | 14.5 | 55 | 230 | -15 | High-alkaline TPEO for high-load engines with variable operating conditions. |
| Nauta T3040 | SAE 40 | 13.8 | 40 | 228 | -16 | Provides excellent thermal stability and resistance to oxidation. |

5.3. High-Speed Engine Oils

| PRODUCT | SAE GRADE | VISCOSITY @ 100°C (CST) | TOTAL BASE NUMBER (TBN) | FLASH POINT (°C) | POUR POINT (°C) | APPLICATION |
|-----------------------|-----------|-------------------------|-------------------------|------------------|-----------------|--|
| Marine Oil HSP 10W-40 | 10W-40 | 14.0 | 10 | 220 | -30 | Formulated for high-speed engines, providing superior cold start protection. |
| Marine Oil HSP 5W-30 | 5W-30 | 11.8 | 8 | 210 | -35 | Fully synthetic oil for modern high-speed engines, enhancing fuel economy. |
| Marine Oil HSP 15W-50 | 15W-50 | 16.0 | 12 | 235 | -25 | Suitable for engines operating under high stress and temperature conditions. |

5.4. Gear Oils for Marine Applications

| PRODUCT | SAE GRADE | VISCOSITY @ 100°C (CST) | TOTAL BASE NUMBER (TBN) | FLASH POINT (°C) | POUR POINT (°C) | APPLICATION |
|-------------------------|-----------|-------------------------|-------------------------|------------------|-----------------|--|
| Marine Gear Oil MGO 220 | ISO 220 | 220 | 19.0 | 240 | -12 | High-performance gear oil for marine propulsion systems. |
| Marine Gear Oil MGO 460 | ISO 460 | 460 | 30.0 | 250 | -10 | For gearboxes under high load conditions, providing excellent wear protection. |
| Marine Gear Oil MGO 320 | ISO 320 | 320 | 24.0 | 245 | -15 | Ensures smooth operation in marine gears, reducing noise and friction. |

5.5. Hydraulic Oils for Marine Equipment

| PRODUCT | SAE GRADE | VISCOSITY @ 100°C (CST ASTM D 445) | VISCOSITY INDEX (ASTM D 2270) | FLASH POINT (°C) | POUR POINT (°C) | TAN (MG KOH/G ASTM D664) |
|-----------------------------|-----------|------------------------------------|-------------------------------|------------------|-----------------|--------------------------|
| Hydraulic Oil HVL Marine 32 | ISO 32 | 6.2 | 150 | 205 | -33 | 0.38 |
| Hydraulic Oil HVL Marine 46 | ISO 46 | 8.2 | 150 | 210 | -33 | 0.38 |
| Hydraulic Oil HVL Marine 68 | ISO 68 | 11.3 | 150 | 230 | -33 | 0.38 |

5.6. Speciality Lubricants for Auxiliary Systems

| PRODUCT | TYPE | NLGI GRADE | WORKED PENETRATION (MM/10) | DROPPING POINT (°C) | APPLICATION |
|-----------------------------|-----------------|------------|----------------------------|---------------------|--|
| Marine Grease GP-Xtreme | Lithium Complex | NLGI 2 | 265 | 260 | Heavy-duty grease for winches, cranes, and exposed deck equipment. |
| Stern Tube Lubricant ST-300 | Mineral | N/A | N/A | 220 | Ensures smooth shaft operation and prevents water ingress. |
| Marine Bio-Grease | Biodegradable | NLGI 2 | 270 | 180 | Environmentally friendly grease for sensitive areas. |



Explore the full
range of products
from the catalog



Become Part of Our Success

To become one of our next successful partners and learn more about our full range of products, visit www.aminol.az or contact us directly. Let's work together to make Aminol products a success in your market.



Shell



ExxonMobil



NESTE

SASOL



CLARIANT



DowPol
道普化学



MUNZING



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