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i-Sigma



*Guido Caviglioli per Eni*

The complete line of lubricants for  
efficiency and reliability both on- and off-road



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# Greases

Greases	Product Description:	Performance Level/Grades:
<b>Superplex EP</b>	A premium red lithium complex grease combining the latest in thickener technology with select paraffin base stocks to ensure superior high temperature performance, rust protection, anti-wear characteristics and excellent water washout protection. For all automotive, commercial and industrial applications where an extreme pressure, high-temperature grease is required.	<ul style="list-style-type: none"> <li>• NLGI Grades 0, 1 and 2</li> <li>• Meets NLGI GC-LB requirements for wheel bearing and chassis lubrication.</li> </ul>
<b>Advantage Plus Moly EP</b>	A high-performance, extended service grease formulated to provide excellent extreme pressure and stay-in-place properties with balanced mobility/pumpability across a wide ambient temperature range. Provides extremely high load carrying capabilities to ensure strong protection to component parts during extreme pressure and shock loading.	<ul style="list-style-type: none"> <li>• NLGI Grades 1 and 2</li> </ul>
<b>Lithium EP</b>	A premium 12-Hydroxy Lithium Stearate grease containing EP additives. They are brown, buttery lithium soap, oxidation and rust-resistant greases. These greases are sheer stable and provide high load-carrying capacity, excellent rust protection, corrosion resistance, and resistance to water washout. Designed to lubricate ball and roller bearings for prolonged periods at high temperatures.	<ul style="list-style-type: none"> <li>• NLGI Grades 000, 00, 0, 1 and 2</li> </ul>
<b>Lithium Moly EP</b>	Lithium Moly is a premium lubricating grease containing lithium 12-hydroxystearate and molybdenum disulfide for operations where greased components are subject to heavy loading. Suited for use in industrial equipment, automotive, construction and mining vehicles. This grease has good mechanical stability, water resistance, rust preventative qualities and oxidation stability.	<ul style="list-style-type: none"> <li>• NLGI 2</li> </ul>
<b>Autol Top 2000</b>	Super longtime grease of synthetic polymer-mineral oil-base with superior adhesive qualities.	<ul style="list-style-type: none"> <li>• NLGI 2</li> </ul>
<b>Synplex EP</b>	A lithium complex lubricating grease formulated with 100% synthetic hydrocarbon fluids (PAO). Special additive package insures high film strength, extreme pressure (EP) and anti-wear properties. In addition, this product has a high dropping point in excess of 500°F as well as exhibiting excellent low temperature performance to temperatures of -40°F (-40°C).	
<b>Blue Lightning</b>	A non-soap thickened Polyurea high-performance grease fortified with rust and oxidation inhibitors as well as extreme pressure additives. A superb all-purpose lubricating grease that performs well in areas where water washout is a major problem.	<ul style="list-style-type: none"> <li>• Meets NLGI Certification GC-LB</li> </ul>

# Engine Oils

North American Engine Oils	Product Description:	Performance Level:
<b>i-Sigma top 4AM 5W-40</b>	A premium full synthetic heavy-duty diesel engine oil designed to provide maximum performance and protection in combination with improved fuel economy over conventional heavy-duty 15W-40 engine oils. Recommended for use in virtually all modern low-emission diesel engines as well as older 4-stroke diesel engines.	<b>OFFICIALLY LICENSED OEM APPROVALS:</b> <ul style="list-style-type: none"> <li>• Mack EO-O Premium Plus</li> <li>• Cummins CES 20081</li> <li>• Detroit Diesel Power Guard 93K218</li> <li>• Volvo VDS-4</li> <li>• Renault RLD-3</li> </ul> <b>MEETS OR EXCEEDS REQUIREMENTS OF:</b> <ul style="list-style-type: none"> <li>• API CJ-4/SM • ACEA 07-04</li> <li>• Mack EO-N PP 03</li> <li>• MB p228.3 &amp; p228.31</li> <li>• Detroit Diesel Power Guard 93K215, 93K214</li> <li>• Caterpillar ECF-2 &amp; ECF-3</li> <li>• MAN</li> <li>• MTU Type 1 &amp; II test requirements</li> <li>• Global DHD-1</li> </ul>
<b>i-Sigma top 4AM 15W-40</b>	A premium, heavy-duty engine oil formulated to safeguard all diesel engine applications including modern Exhaust Gas Recirculation and Diesel Particulate Filter-equipped engines operating on Ultra-Low Sulfur Diesel fuel (15 ppm) and older on/off-highway equipment running on Low Sulfur Diesel fuel (500 ppm). Excels in a wide range of heavy-duty applications and operating environments found in the trucking, mining, construction and agricultural industries.	<b>OFFICIALLY LICENSED OEM APPROVALS:</b> <ul style="list-style-type: none"> <li>• Mack EO-O Premium Plus</li> <li>• Cummins CES 20081</li> <li>• Detroit Diesel Power Guard 93K218</li> <li>• Volvo VDS-4</li> <li>• Renault RLD-3</li> </ul> <b>MEETS OR EXCEEDS REQUIREMENTS OF:</b> <ul style="list-style-type: none"> <li>• API CJ-4, CI-4 Plus, CI-4, CH-4/SM</li> <li>• Caterpillar ECF-2, ECF-3, ECF-1A</li> <li>• ACEA E9-08, E7-08</li> <li>• MAN M3275</li> <li>• Mercedes Benz p228.31</li> <li>• MTU Type I &amp; II</li> <li>• Global DHD-2</li> </ul>
<b>i-Sigma Special 4AM 10W-30; 15W-40</b>	High-performance, heavy-duty lubricants developed to meet a wide range of performance demands in both on- and off-highway diesel engines. Formulated for modern diesel engines utilizing Selective Catalyst Reduction and Exhaust Gas Recirculation as well as older engines utilizing Ultra Low Sulfur Diesel (ULSD) fuel.	<ul style="list-style-type: none"> <li>• API CJ-4/SM • ACEA E7</li> <li>• Caterpillar ECF-1A, ECF-2, ECF-3</li> <li>• Cummins CES 20081</li> <li>• Detroit Diesel 93K218</li> <li>• Mack EO-O PP</li> <li>• MB 228.3</li> <li>• Volvo VDS-4</li> </ul>
<b>i-Sigma 4AM 15W-40</b>	Formulated to provide outstanding protection against wear, deposits and high temperature thickening for diesel engines in heavy-duty service. Recommended for use in pre-2007 model year EGR-equipped, four-stroke diesel engines and equipment.	<ul style="list-style-type: none"> <li>• API CI-4, CH-4, CF/SL • ACEA A3/B3; E2</li> <li>• Mack EO-M Plus</li> <li>• Cummins CES 20078</li> <li>• Volvo VDS/VDS-2</li> <li>• Ford M2C171-D</li> <li>• Caterpillar ECF-1</li> <li>• Caterpillar TO-2</li> <li>• Allison C-3/C-4</li> </ul>
<b>i-Sigma 4AM SAE 20W-20 SAE 30, SAE 40, SAE 50</b>	High-performance lubricant for use in both on- and off-highway diesel engines, gasoline engines, and equipment where a straight weight motor oil is recommended. Excellent performance in the areas of dispersancy, detergency, wear protection, high-temperature thickening, bearing corrosion, and friction control for powershift transmissions.	<ul style="list-style-type: none"> <li>• SAE 20W-20, 40, 50</li> <li>Meets Performance Specification API CF, CF-2</li> <li>• SAE 30</li> <li>Meets Performance Specification API CF, CF-2/SL</li> </ul>

# Gear Lubricants

Manual Transmissions	Product Description:	Performance Level:
<b>Rotra Moly-Tacky</b> SAE 90, 140	Rotra Moly-Tacky Automotive type gear lubricants formulated with Molybdenum Disulfide to provide improved EP protection when compared to conventional type automotive gear lubricants.	<ul style="list-style-type: none"> <li>• SAE J2360</li> <li>• API GL-5</li> </ul>
<b>Rotra Red-Tacky</b> SAE 90, 140	Automotive type gear lubricants blended from high-quality paraffin base stocks and EP additives to for high-temperature protection compared to other gear oils.	<ul style="list-style-type: none"> <li>• SAE J2360</li> <li>• API GL-5</li> </ul>
<b>Rotra MP LS 4AM</b> 80W-90, 85W-140	Multi-grade, multi-service, extreme pressure gear lubricants for excellent protection against shock loading. Recommended for automotive and truck rear axles and industrial applications where an API GL-5 product is specified. Formulated for limited slip service-fill applications.	<ul style="list-style-type: none"> <li>• API GL-5</li> <li>• API MT-1</li> <li>• SAE J2360 (Quality)</li> <li>• Mack GO-J</li> </ul>
<b>Rotra LSX Syn 4AM</b> 75W-90, 75W-140, 80W-140	Heavy-duty, extreme pressure, GL-5 gear lubricants with limited-slip performance. Formulated using synthetic base oils to provide high viscosity index, exceptionally low pour point and shear stability.	<ul style="list-style-type: none"> <li>• API GL-5, MT-1</li> <li>• MIL-L-2105E</li> <li>• U.S. Steel 224</li> <li>• SAE J2360</li> <li>• Mack GO-J</li> </ul>
<b>Rotra Syn Gear</b> 75W-90, 80W-140	Heavy-duty, extreme pressure, GL-5 gear lubricant. Formulated using a synthetic gear base stock that has a high-viscosity index and an exceptionally low pour point. Contains extreme pressure additives along with rust, oxidation, and corrosion inhibitors to protect gears and bearings operated under a wide variety of load conditions. Recommended for applications where heat and wear present major problems including manual transmissions where EP-type lubricants are recommended.	<ul style="list-style-type: none"> <li>• Approved by Eaton Corporation and Rockwell for those axles where extended warranties are offered.</li> <li>• API GL-5, MT-1</li> <li>• Harnischfeger (P&amp;H) 474</li> <li>• Rockwell International O-76-E (75W-90), O-76-B (80W-140)</li> <li>• SAE J2360</li> <li>• U.S. Steel 224 Demulsibility</li> <li>• AGMA 250.03 Demulsibility</li> <li>• Mack Truck GO-J Plus PS-037</li> <li>• General Electric D50E9C PS-163</li> <li>• Spicer Axle Division Dana Corp.</li> <li>• Eaton Axle Division PS-109 (75W-90)</li> <li>• Clark Axle</li> </ul>

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# Transmission Fluids

Automatic Transmissions	Product Description:	Performance Level:
<b>Rotra ATF III 4AM</b>	Provides wear protection, oxidation and thermal stability for long transmission life in automatic, powershift and hydrostatic transmissions.	May be used in automatic transmissions where former Dexron III/Mercon fluids are recommended.
<b>Rotra ATF HV 4AM</b>	A premium synthetic Automatic Transmission Fluid designed for use in both heavy-duty and import applications. Provides excellent lubricating properties for smooth shifting and quiet operation throughout service life with outstanding anti-shudder durability. Superior resistance to oxidation, foam, rust, corrosion and seal degradation. Outstanding wear control and viscosity stability at both high and low temperatures.	Suitable for use in transmissions requiring the following specifications: <ul style="list-style-type: none"> <li>• Allison C-4, TES 295*</li> <li>• BMW LT 71141; 2634; ETL-7045E; 8072B</li> <li>• Caterpillar TO-2 • Chrysler ATF+3; ATF +4*</li> <li>• Ford Mercon; Mercon V* • GM D-II; DIII (G); DIII (H)</li> <li>• HMC/KIA SP-II; SP-III • Honda ATF Z1 • Jaguar</li> <li>• JASO M315-2004 • Land Rover • MAN 339 V1; 339 Z2</li> <li>• Mazda ATF M-III; ATF M-V</li> <li>• Mercedes-Benz 236.01 (02; 03; 05; 06; 07); 236.09; 10; 11; ATF 3403 M-115</li> <li>• Nissan Matic D; Matic J; Matic K</li> <li>• Subaru ATF; ATF-HP • Toyota T-III; T-IV; JWS 3309</li> <li>• Voith H55.6335.XX (G607)</li> <li>• VW/Audi G 052 025 (09M); G 052 990 (09A)</li> <li>• ZF TE-ML 03D; 04D; 14A; 14B; 16L; 17C</li> </ul> <small>*Viscometric Specification not met</small>
<b>Rotra Syn Trans SAE 50</b>	Synthetic lubricant designed for extended drain and severe service in heavy-duty manual transmissions that require a straight mineral oil (non EP) MIL-L-2104C or MIL-L-46152B engine lubricant. Provides superior all-weather, year round performance.	<ul style="list-style-type: none"> <li>• API GL-4</li> <li>• Eaton Transmission Division PS-081, PS-164 (Revision 7)</li> <li>• Mack TO-A Plus • Meritor Extended Drain</li> </ul>
<b>Multitech CW 4AM</b>	A Universal Tractor Fluid that is recommended for use in cold weather climates in power-shift/hydrostatic/manual transmissions, differentials, final drives, wet brakes/clutches, power steering and PTO drives commonly used in farm, construction and forestry equipment, off-highway vehicles and industrial tractors.	Meets or exceeds the following specifications: <ul style="list-style-type: none"> <li>• AGCO - Massey-Ferguson M1110, M1127A, M1127B, M1129</li> <li>• J.I. Case MS1207, MS1210 • John Deere J20D</li> <li>• New Holland M2C41B, M2C48C</li> </ul>
<b>Multitech TO-4 4AM</b>	Single viscosity transmission/drive train oil that meets Caterpillar TO-4 and Allison C-4 performance requirements. Designed to maximize Caterpillar transmission and final drive life and performance and in other vehicle drive train components such as final drives, bevel gears and differentials. May also be used in hydraulic systems.	<ul style="list-style-type: none"> <li>• Caterpillar TO-4</li> <li>• Not for use in gasoline or diesel engines.</li> <li>• Available in SAE 10W, 30W and 50W.</li> </ul>
<b>Multitech 4AM</b>	High-quality transmission/differential/hydraulic fluid for use in powershift/hydrostatic/manual transmissions, differentials, final drives, wet brakes/clutches, power steering and PTO drives commonly used in farm and construction equipment, off-highway vehicles and industrial tractors. Minimizes wet brake and clutch chatter for vibration-free operation. Excellent EP properties to reduce gear pitting and wear.	<ul style="list-style-type: none"> <li>• John Deere J20A, J20C</li> <li>• Ford New Holland M2C41B, M2C48B, M2C48C, M2C86C, M2C134D</li> <li>• Mobile Equipment Hydraulic Systems</li> <li>• Massey-Ferguson M1110, M1127A, M1127B, M1129A, M1135, M1139, M1141, J.I. Case MS1204, MS1205, MS1206, MS1207, MS1210</li> <li>• Deutz-Allis (PF821XL), Versatile (23M or 24M), Landini, Fiat-Hesson</li> <li>• Kubota B6 (UDT) • HC B-6</li> <li>• White Farm Q1826 • Vickers 35VQ25</li> <li>• Power Shift Transmissions specifying Allison C-3/C-4 or CAT fluids</li> </ul>
<b>Multitech Hyd 4AM</b>	A high-performance lubricant for a wide range of heavy-duty hydraulic equipment formulated with the highest quality additives and base stocks. Delivers excellent protection against oil thickening, high-temperature deposits, mechanical and corrosive wear and rusting in a wide range of on- and off-highway hydraulic applications.	<ul style="list-style-type: none"> <li>• SAE Grade 10W</li> </ul>

# Hydraulic Fluids

Hydraulic Fluids	Product Description:	Available Viscosities:
<b>Acer SX 4AM</b>	A premium quality synthetic lubricant formulated to provide optimum performance in demanding applications over a wide range of industrial operations. The high viscosity index, high flash point and low pour point of these products provide effective lubrication superior to mineral-based lubricants.	ISO 32-680
<b>Arnica 4AM</b>	A premium quality, multi-viscosity anti-wear hydraulic oils formulated for use in a wide range of operating temperatures. Provides excellent low temperature flow properties and high temperature, high-pressure protection in vane, piston and gear pumps.	ISO 15, 32, 46, 68 and 100
<b>Oso G2 4AM</b>	Premium quality, anti-wear hydraulic oils designed for use in all types of hydraulic systems including rotary vane, gear type and piston hydraulic pumps. Formulated to yield noticeable cost efficiencies including less downtime, reduced maintenance costs, longer change intervals, and extended pump life.	ISO 32, 46, 68 and 100
<b>Oso S 4AM</b>	Premium quality, zinc-free, multi-functional lubricants that are formulated to yield noticeable cost efficiencies including less downtime, reduced maintenance costs, longer change intervals and extended equipment life.	ISO 32, 46 and 68
<b>Oso 4AM</b>	Anti-wear hydraulic oils designed for use in all types of hydraulic systems including rotary vane, gear type and piston hydraulic pumps. Formulated to yield noticeable cost efficiencies including less downtime, reduced maintenance costs, longer change intervals, and extended pump life.	ISO 22-460



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