

ENOC Coolants demonstrated performance in the field

ENOC EN COOL EXTRA LONGLIFE is an extended long life, high quality coolant for continual use of FIVE years without draining. It is formulated from high purity monoethylene glycol and organic acid carboxylate technology corrosion inhibitors with proven coolant and heat transfer performance. It will give excellent corrosion protection to all metals used in the construction of gasoline and diesel engines especially the principle metals: iron, copper and aluminum. It is diluted with de-ionized water at 33% and 50% concentrations of **EN-COOL EXTRA LONGLIFE** coolant.

EN-COOL EXTRA LONGLIFE COOLANT meets and exceeds the following OEM and international specifications:

BS	6580 (1992)
ASTM	D 3306, D 4656, D 4985
AFNOR	NFR 15-601
DaimlerChrysler	MB 325.3
Manufacturers:	GM 6277M, Ford, Audi, BMW, Porsche, Saab, VW, Scania, MAN 324, Deutz/MWM

ENOC EN COOL LONGLIFE is a long life, high quality coolant that can be used for up to three years of continual use. It is formulated from monoethylene glycol and inorganic silicate corrosion inhibitors with proven coolant and heat transfer technology. It will give excellent corrosion protection to all metals used in the construction of gasoline and diesel engines especially the principle metals: iron, copper and aluminum. It is available diluted with de-ionized water at 33% and 50% concentrations of coolant.

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Lubricants Storage

- Consider the following for lubricant storage life:
- Do not use products that have been stored for long periods unless their condition and performance properties have been verified with oil analysis.
 - Long-term storage at moderate temperatures in low humidity environments have little effect on most premium lubricating products.
 - Engine oils, gear oils, hydraulic oils, etc stored in cold temperatures is high risk.
 - Manage inventory to keep lubricants fresh.
 - Grease typically has a shorter storage lifespan than oils, and should be inspected for excess oil bleeding.

Caution:

Proper handling of drums is important. Drums aren't designed to be bounced or dropped. Full drums weigh approximately 450 pounds (200 Kg.), while empty drums weigh around 36 – 38 pounds (16 – 17 Kg.). A pail of oil weighs about 40 pounds (18 Kg.)

ENOC EN COOL is an extended life, high quality coolant for year-round use. It will give excellent corrosion protection to all metals used in the construction of gasoline and diesel engines especially the principle metals: iron, copper and aluminum. Formulated from monoethylene glycol and containing selected protection inhibitors, it gives outstanding rust and corrosion protection to all cooling system materials and is fully compatible with flexible hoses and seals.

EN-COOL ENGINE COOLANT meets and exceeds the following international specifications:

BS	6580 (1992)
ASTM	3306

Brake Fluids

ENOC ULTRA BRAKE FLUID is a high quality synthetic brake and clutch fluid conforming to the DOT4 specification and based on polyglycol type fluid, a high performance standard used in worldwide automotive brake equipment.

ULTRA BRAKE FLUID meets and exceeds the following international specifications:

FMVSS	116 DOT 4
SAE	J-1703
ISO	4925 and NFR 12640.

ENOC SUPER BRAKE FLUID is a high quality synthetic brake and clutch fluid conforming to the DOT3 specification and based on polyglycol type fluid, a general standard used in worldwide automotive brake equipment.

SUPER BRAKE FLUID meets and exceeds the following international specifications:

FMVSS	116 for DOT 3
SAE	J-1703
ISO	4925 and NFR 12640.



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ENOC

The ENOC Lubrication Solution for Construction Equipment

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ENOC: UAE leader in construction lubricants

ENOC has been the UAE leader in lubricant technology for the past few years. Today, in nearly 40 countries and territories worldwide, ENOC is the premium lubricant brand recognized for innovation, performance and expertise.

As construction equipment technology advances and pressures to intensify productivity increase, maximizing performance is not an easy task. Lubrication is a central element to optimizing equipment operations, its vital to use products with built-in performance. And that means ENOC Lubricants.

ENOC is always in relentless pursuit of new technologies and lubrication solutions that enhance equipment performance and efficiency. That is not just a fact! It is a firm commitment from ENOC to bring you industry-leading edge products.

Benefit from our experience with construction equipment builders

Over the past few years, we have developed relationships with leading construction equipment builders. Their endorsements and that of other manufacturers contribute to our market position and guarantee the outstanding performance of ENOC products.

Our experience with the construction industry is unique. No matter what the machine or the operating conditions, ENOC consistently delivers an exceptional level of product performance.

Our leading edge products exceed most of the major manufactures' specifications. This is not easy task when you consider the vastly different climates and operating conditions across the globe, the increasing demands placed on the construction machines and the wide range of performance criteria used to evaluate lubricant quality.



All ENOC construction lubricants are specifically formulated to help you reduce your maintenance costs and improve your equipment and business performance.

Less downtime, outstanding equipment performance, more efficient operations

The ENOC promise is to provide you with support to help you maximize your equipment use and minimize your operating costs. We will supply you with advanced technology lubricants to improve machine performance, reduce maintenance costs, extend oil drain intervals and give lower equipment depreciation rates.

ENOC lubricants have a proven performance record, both in the laboratory and on site. The finest lubrication technology backed by our experience and reputation as an industry leader means that you will appreciate the difference and experience the positive impact of more efficient equipment management.

ENOC lubricants performance

The advanced formulations of ENOC Vulcan engine oils series have been painstakingly researched and engine tested to ensure that they can exceed stringent standards and deliver optimum engine performance.

Whatever the conditions, ENOC gear oils (Zenon Series) make for longer, smoother equipment performance. They have the advantage of ENOC lubricant technology to optimize performance of transmissions, bearings and gears.

We know the importance of hydraulic systems in your machines. Choose ENOC hydraulic oils and you will ensure that hydraulic components last longer.

Do not forget grease applications. Even though the quantities are small, their performance is key. Trust the innovative flair of our engineers and their expertise; ENOC Greases offer proven performance in the field.

Construction Equipment
LUBRICATION SOLUTION

**We don't just sell you lubricants
We help you reduce your overall lubrication costs**

Services are an integral part of the ENOC offering to construction companies. Our team of lubrication experts is available to work with you to help optimize overall lubrication management. We consistently lead the industry in new and innovative technical services provided by a worldwide network of lubrication experts. ENOC services help you maximize the cost saving benefits of our products in the long term.

Our extensive work with Original Equipment Manufacturers plays an invaluable role in delivering technical services that are consistent with the latest trends. These services are indispensable in keeping your construction equipment at peak performance and include:

- ENOC used oil analysis
- Training programs
- Waste oil removal recommendations
- Lubricant surveys' and product recommendations and rationalizations
- Drain oil recommendations
- Technical troubleshooting and technical assistance



ENOC Products Range for Construction Equipment

Lubricants for outstanding performance

ENOC branded lubricants enable customers to get the maximum benefits out of their equipment because we start at the beginning with the Original Equipment Manufacturer's recommendations. We also work closely with construction companies to ensure proper product utilization in terms of the correct product for service along with technical support back-up to help reduce customer overall lubrication costs and improve productivity.

ENOC Engine Oils

ENOC VULCAN 880X is a technologically advanced heavy duty diesel engine oil for low emission engines operating on high temperature using low sulphur fuel and fitted with exhaust after treatment devices such as Three Way Catalyst (TWC), Diesel particulate filters (DPF), Selective Catalyst Reduction (SCR), Diesel Particulates & Nitrous-oxide Reduction (DPNR), Exhaust Gas Recirculation (EGR). The product is developed to comply with low emission norms EURO I, II, III, IV & V and extended drain intervals. It is available in SAE 15W-40 viscosity grade to control engine piston deposits.

VULCAN 880X meets and exceeds the following; International specifications:

API	CJ-4/SM	MAN	3275
ACEA	E7	Renault Truck	RDL-3
Volvo	VDS-4	CAT	ECF-3/ECF-2
MB	228.3	MACK	EO-O
DDC	93K218	CUMMINS	20081

ENOC VULCAN 770 SLD 10W-40 is a fully synthetic Extra or Super High Performance long drain diesel engine oil developed for modern low emission European trucks meeting the EURO IV emission standards. This lubricant has been developed to exceed Mercedes Benz 228.5 and Volvo VDS- 3 and other long oil drain specifications. VULCAN 770 SLD offers the ultimate performance for fleet operators wanting long engine life in modern long haul low emission diesel trucks operating on extended long drain periods.

VULCAN 770 SLD meets and exceeds the following OEM and international Specifications:

Mercedes Benz	228.5	Renault	RLD-2/ RXD
Volvo	VDS-3	IVECO	ACEA E4
MAN	M 3277	ACEA	E4/ E7-04
API	CI-4	MTU	Category 3



ENOC VULCAN 770X is a Super High Performance long drain diesel engine oil meeting the latest API CI-4 standard available in a shear stable viscosity grade. This lubricant has been developed as a long life oil meeting Mercedes Benz 228.3 and Volvo VDS-3 long oil drain specifications. **VULCAN 770X** offers excellent performance for fleet operators wanting long engine life in modern long haul diesel trucks operating with low emission engine standards meeting Euro 4 and for extended drain periods.

VULCAN 770X meets and exceeds the following OEM and international specifications:

API	CI-4, CH-4, SL
Renault	RLD/RLD-2
ACEA	E5-02, E7
Cummins	20076/20077 and 20078
Mercedes Benz	228.3
MAN	M 3275
Volvo	VDS-3
MTU	Type 2
MACK	EO-M Plus

ENOC VULCAN 660X is a Super High Performance quality diesel engine oil available in shear stable viscosity grades. This lubricant has been developed as a long life oil to exceed Mercedes Benz 228.1 and Volvo VDS long oil drain specifications. **VULCAN 660X** offers the ultimate performance for fleet operators wanting long engine life for modern European, US and Japanese low emission diesel engines capable of extended drain periods.

VULCAN 660X meets and exceeds the following OEM and international specifications:

API	CG-4, CF-4 / SJ
Caterpillar	TO-2
ACEA	E2 04, B2 02, A3-02
MAN	271
Renault	VI E2R
Allison	C-4
Mercedes Benz	228.1
Volvo	VDS

ENOC VULCAN 550X is a high performance diesel engine oil for use in high output and turbocharged engines. It is available in SAE 15W-40 viscosity grade and has been developed as an API service classification CF-4/SJ oil for mixed fleet operations where European, US and Japanese heavy and light duty trucks are used. The total base number (TBN) of 11 provides a high alkalinity reserve necessary to give excellent engine protection for long engine life.

VULCAN 550X meets and exceeds the following OEM and international specifications:

API	CF-4/SJ (Obsolete now)
Volvo	VDS
Mack	EO K/2
MAN	270, 271
ACEA	E2 96/2, B2-98, A2/96/2
Caterpillar	TO-2
US Military	MIL L 2104E
Allison	C-4
Mercedes Benz	228.1



ENOC VULCAN 330 is a range of mono-grade engine oils developed for the lubrication of heavy goods vehicles used in general transport, earthmoving, quarrying and construction equipment as well as medium speed trunk piston engines burning distillate fuels with sulfur content up to 1.0%. It is designed specifically for use in naturally aspirated and light turbocharged diesel engines. They are formulated to have excellent resistance to oxidation and viscosity increase over a long period of service.

VULCAN 330 meets and exceeds the following OEM and international specifications:

API	CF
CCMC	D2
Caterpillar	TO 2

ENOC Gear Oils

ENOC ZENON ULTRA & ULTRA PLUS fluids are superior quality multi-grade gear and transmission oils suitable for cars, trucks, construction plant and other mobile equipment. They provide long life by offering a high degree of resistance to gear wear and scuffing. Non-scheduled maintenance work can be reduced due to the minimizing of premature gear failures and deposit formation on bearings, working surfaces and seals which can lead to leakage. They contain balanced extreme pressure chemical technology designed to minimize scuffing and scoring of gear surfaces despite high speed, high torque and shock operations.

ZENON ULTRA & ULTRA PLUS meets and exceeds the following OEM and international specifications:

API	GL-5
US Military	MIL-L-2105D
Mack	GO-G

ENOC ZENON PREMIUM & PREMIUM PLUS fluids are high quality mild extreme pressure multi-grade gear and transmission oils suitable for use in cars, trucks, buses, construction plant equipment. They are blended from high quality base oils and incorporate balanced, extreme pressure chemical technology to minimize scuffing and scoring of transmission gears operating in high speed and high torque conditions where API GL-4 performance is required.

ZENON PREMIUM PLUS meets and exceeds the following international specifications:

API	GL-4
US Military	MIL-L-2105
MB	235.1
MAN	341
ZF	TE-ML 02

ENOC ZENON PREMIUM PLUS SYN fluids are Synthetic based high quality mild extreme pressure multi-grade gear and transmission oils suitable for use in cars, trucks, buses, and construction plant equipment. They are blended from high quality synthetic base oils and incorporate balanced, extreme pressure chemical technology to minimize scuffing and scoring of transmission gears operating in high speed and high torque conditions where API GL-4 performance level is required. This is especially recommended for trucks and coaches equipped with ZF manual gear boxes

ZENON PREMIUM PLUS SYN meets and exceeds the following International specifications:

API	GL-4
MAN	341 Type TL
ZF	TE-ML 02/02D

ENOC ZENON ULTRA LSD fluid has been developed specifically for Limited Slip differentials providing superior quality multi-grade gear performance. The formulation contains special friction properties that reduce transmission noise and extended life with smooth operation. This is recommended for self-blocking axles equipped with limited slip differentials requiring SAE 80W-90

ZENON ULTRA LSD meets and exceeds the following OEM and international specifications:

API	GL-5
ZF	TE-ML 05C, 12C



ENOC Hydraulic oils are developed to ensure long life for hydraulic components

ENOC HYDRAULIC HD 10W is a SAE 10W engine oil used in hydraulic applications where mobile equipment manufacturers recommend SAE 10W engine oil. It has been developed to provide special anti-wear protection to minimize mobile equipment pump wear that also includes rust and corrosion inhibitors to protect the hydraulic system working surfaces.

HYDRAULIC HD 10W meets and exceeds the following OEM and international specifications:

API	CD
Caterpillar	TO-2

ENOC AXIS is a premium range of quality hydraulic fluids designed for service in industrial high pressure hydraulic systems and mobile equipment. It is produced from highly refined paraffinic base stocks and provides excellent protection against wear in a wide range of pumps and in all active hydraulic components. ENOC AXIS is designed to provide long fluid life and trouble free operation; inhibited to protect the hydraulic system against corrosion and water displacement properties.

ENOC AXIS meets and exceeds the following OEM and international specifications:

DIN	51524/2
AFNOR	NFE 48 603 HM
US Steel	127, 136
Denison	HF 2, HF 0
Cincinnati Milacron	P 68, P 69, P 70
Vickers	1 286 S3, M 2950 S
ISO	6743/4

ENOC Greases offer proven performance in the field

ENOC VERRON MP is a high quality, lithium grease suitable for a wide range of applications. It is available in NLGI 2 and 3 consistencies. They are formulated for use in automotive equipment and general lubrication for use in temperatures up to 120°C and where water contamination can be present. The high quality base oils used in the manufacture of these greases have good resistance to oxidation and because of their low pour point, they provide lubrication at temperatures down to -20°C.

ENOC VERRON EP greases have been developed for automotive applications where the benefits of lithium base thickened greases have excellent extreme pressure, load carrying and anti-wear properties in both steel-on-steel and steel-on-bronze applications. It contains an effective oxidation and rust inhibitor and is an ideal multipurpose grease suitable for use in a wide range of applications.

ENOC VERRON MOLY EP is a high quality lithium NLGI No. 2. Grease containing 3% molybdenum disulphide filler and Extreme Pressure properties. The fine grade molybdenum disulphide used in the manufacture of this grease has an extremely low particle size (< 2 microns) which provides good lubricating properties under extreme load conditions. It has mechanical stability, high resistance to water washout, oxidation and corrosive attack.

ENOC VERRON LX is high performance lithium complex greases with extreme pressure properties, developed for automotive wheel bearing lubrication where they can operate at high temperatures. They have excellent load carrying and anti-wear properties in both steel-on-steel and steel-on-bronze applications. That contains an effective oxidation and rust inhibitor and has low wash-out properties that are important performance requirements for wheel bearing lubrication.

