



COMMERCIAL



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## ENGINE OILS

The Exol range of commercial products is formulated to give the following benefits:-

- EXCELLENT LUBRICATION OVER A WIDE TEMPERATURE RANGE
- EASE OF COLD START COMBINED WITH RAPID CIRCULATION
- REDUCED WEAR AND OIL CONSUMPTION
- HIGH LEVEL OF ENGINE CLEANLINESS
- LOWER EMISSIONS
- COMPATIBILITY WITH AFTER TREATMENT SYSTEMS
- PROTECTION FROM COMBUSTION CONTAMINANTS

## PREMIUM LOW SAPS GRADES

### TAURUS EURO PLUS 10W-40 (FULLY SYNTHETIC)

Taurus Euro Plus 10W-40 is a heavy duty diesel engine oil that has been formulated to meet the latest low SAPS criteria required by the latest Euro low emission engines. It is recommended for use in the vast majority of modern heavy duty diesel engines and exhibits outstanding soot handling, oxidative thickening resistance and long drain capabilities. **Approved by Scania, Volvo, Renault and Mack.**

ACEA E6,E9,E7, API CI-4, MB 228.51, MAN M3477,M3271-1, SCANIA LOW ASH, MTU TYPE 3.1, VOLVO VDS-3,CNG, RENAULT RXD,RLD-2,RGD, CATERPILLAR ECF-1-A, CUMMINS CES 20076/77, DEUTZ DQC IV-10 LA, JASO DH-2, MACK EO-N,EO-M PLUS

### TAURUS EURO 5 10W-40 (FULLY SYNTHETIC)

Taurus Euro 5 10W-40 is a fully synthetic revolutionary heavy duty diesel engine oil designed specifically for new HGVs where low SAPS technology is required to satisfy the latest Euro standard low emission requirements. This product is suitable for extended drain intervals. **Approved by Mercedes-Benz, MTU, MAN, Volvo, Renault and Mack.**

ACEA E6,E7, API CI-4, MB-APPROVAL 228.51, MAN M3477,M3271-1, MTU TYPE 3.1, VOLVO VDS-3, RENAULT RXD,RLD-2,RGD, DAF EXTENDED DRAINS, CUMMINS CES 20076/77, DEUTZ DQC III-10 LA,DQC III-10, MACK EO-N,EO-M PLUS

### TAURUS SHPD E9 15W-40 (HIGH PURITY MINERAL OIL)

Taurus SHPD E9 15W-40 is the very latest, new generation 'Super High Performance' heavy duty diesel engine oil formulated to meet the latest Euro 5 low emissions requirements. This advanced lubricant utilises the latest low SAPS additive technology which helps protect sensitive after-treatment systems found in many modern heavy duty vehicles.

**Approved by Volvo, Renault and Mack.**

ACEA E9, API CJ-4/SM, CUMMINS 28001, MB 228.31, MAN M3575, MTU TYPE 2.1, RENAULT RVI RLD-3, VOLVO VDS-4, CATERPILLAR ECF-3, MACK EO-O PREM+

## FULLY & SEMI SYNTHETIC GRADES

### TAURUS RESILIENT 10W-40 (FULLY SYNTHETIC)

Taurus Resilient 10W-40 is a highly robust fully synthetic heavy duty diesel engine oil and is designed to satisfy the longer drain intervals demanded by the OEM. It is particularly recommended for the latest Scania engines as well as certain Euro 4 and Euro 5 engines from other manufacturers and is highly tolerant of fuels containing increased levels of biodiesel. **Approved by Scania.**

ACEA E4,E7, API CF, SCANIA LDF-3,LDF-2,LDF, MB 228.5, MAN M3277, DAF EXTENDED DRAINS, MTU TYPE 3, VOLVO VDS-3, RENAULT RXD,RLD-2,RLD,RD-2, DEUTZ DQC III-05, CUMMINS CES 20072, ZF TE-ML 04C

### TAURUS EXTREME M3 10W-40 (FULLY SYNTHETIC)

An ultra high performance heavy duty diesel engine oil designed for use in many Euro 5 engines employing NOx reduction systems. Its superior sludge and deposit control make this grade highly tolerant of severe operating conditions as found in many rail and commercial vehicle engines.

**Approved by MTU, Volvo, Renault and Mack.**

ACEA E4,E7, API CI-4,CF, MB 228.5, MTU TYPE 3, MAN M3277, VOLVO VDS-3, RENAULT RXD,RLD-2,RLD, CATERPILLAR ECF-1-A, CUMMINS CES 20077/78, DEUTZ DQC IV-10, MACK EO-N,EO-M PLUS

### TAURUS UHPD 5W-30 (FULLY SYNTHETIC)

Taurus UHPD 5W-30 is an ultra high performance fully synthetic diesel engine oil designed for extended oil change periods. Taurus UHPD 5W-30 is formulated from synthetic base stocks and approved performance additives which offer excellent thermal stability, low volatility, consistently efficient long life performance and excellent fuel efficiency capabilities.

ACEA E4, API CH-4, VOLVO VDS-2, MB 228.5, MAN M3277, MTU TYPE 3, RENAULT RVI RXD, DAF HP-2

### TAURUS VALIANT 10W-40 (SEMI SYNTHETIC)

Taurus Valiant 10W-40 is one of the latest heavy duty diesel engine oils to be added to Exol's range. Taurus Valiant 10W-40 is formulated to comply with the latest low emission requirements in Euro 4 and Euro 5 engines and is designed to satisfy the longer drain intervals demanded by the OEM. Particularly suited to vehicles using Exhaust Gas Recirculation (EGR) Systems.

**Approved by Scania, Volvo, Renault and Mack.**

ACEA E4,E7, API CI-4, SCANIA LDF-2, MB 228.5, MAN M3277, MTU TYPE 3, DAF EXT. DRAINS, VOLVO VDS-3, RENAULT RVI RXD, CUMMINS 20077/78, DEUTZ DQC III-05, MACK EO-M+

### TAURUS XHPD 10W-40 (SEMI SYNTHETIC)

Taurus XHPD 10W-40 has been developed to meet the severe duty requirements of heavy duty diesel engine vehicles operating under extended drain conditions, as specified by the engine manufacturer. Taurus XHPD 10W-40 combines economy with excellent performance and high and low temperature stability.

ACEA E4, API CH-4, MB 228.5, MAN M3277, MACK EO-L, VOLVO VDS-2, MTU TYPE 3, RENAULT RVI RXD



# EXOL'S COMPREHENSIVE RANGE OF COMMERCIAL LUBRICANTS IS SPECIFICALLY DESIGNED TO MEET CUSTOMER REQUIREMENTS.

## PREMIUM MINERAL GRADES

### TAURUS EXTREME M 15W-40

A top quality super high performance heavy duty diesel engine oil capable of providing long oil drain intervals. Key features of Taurus Extreme M 15W-40 are its excellent wear protection levels and superior soot handling ability. Recommended for use in highly stressed diesel engines found in both the rail and commercial vehicle sectors. **Approved by MTU, Volvo, Renault and Mack.**  
ACEA E7,B4,A3, API CI-4/SL, MTU TYPE 2, VOLVO VDS-3, RENAULT RVI RLD-2, MB 228.3,229.1, MAN M3275, MACK EO-M+, CUMMINS 20077, CATERPILLAR ECF-2, ZF TE-ML 07C

### TAURUS SHPD E7 15W-40

Taurus SHPD E7 15W-40 is a 'Super High Performance' heavy duty diesel engine oil formulated to meet the most severe lubrication requirements demanded by a wide range of manufacturers. It has superior soot handling properties and provides high levels of piston cleanliness, oxidation resistance and anti-wear characteristics. **Approved by Cummins, Volvo, Renault and Mack.**  
ACEA E7,B4,B3,A3, API CI-4/SL, MB 228.3,229.1. CUMMINS 20071/72/76/77/78, MAN M3275, MTU TYPE 2, MACK EO-N, EO-M PLUS, VOLVO VDS-3, RENAULT RVI RLD-2, GLOBAL DHD-1, ZF TE-ML 04C/07C, CATERPILLAR ECF-2, ALLISON C4, JASO DH-1, DDC 93K215, DEUTZ DQC III-10

### TAURUS SHPD E5 15W-40

The predecessor to Taurus SHPD E7 15W-40 and suitable for use in vehicles, typically of the Euro 3 type, where the following specifications are required.  
ACEA E5,B4,B3,A2, API CH-4/SL, MB 228.3, MAN M3275, CUMMINS 20071/72/76/77, VOLVO VDS-3, MACK EO-M+, RENAULT RVI RLD, GLOBAL DHD-1, MTU TYPE 2

## HYDRAULIC OILS

### ULTRAMAX MG32, MG46

High viscosity index hydraulic fluids with multigrade characteristics. Suitable for applications where wide temperature variations may exist or where rationalisation of grades is desired.  
DIN 51524 PART 3, ISO 6743/4, DIN 51517 PART 3, SPERRY VICKERS M-2950-S, I-286-S, POCLAIN (MG46 ONLY)

### ULTRAMAX 22, 32, 46, 68, 100

A range of premium quality hydraulic fluids for heavy duty applications. Containing anti-oxidant, anti-foam, anti-rust and a high level of anti-wear additives.  
DIN 51524 PART 2, ISO 6743/4, SPERRY VICKERS M-2950-S, SPERRY VICKERS I-286-S. US STEEL 127, SEB 181.222, VDMA 24318

## TRANSMISSION OILS

### ATHENA SUPER SYNGEAR 75W-90 (FULLY SYNTHETIC)

A long life Total Driveline Lubricant recommended for highly stressed manual gearboxes and heavily loaded axle drives where an oil meeting the following specifications is required.  
**Approved by Scania.**  
API GL-4,GL-5,MT-1, MIL-PRF-2105E, SAE J2360, SCANIA STO 1:0, ARVIN MERITOR 0-76-N, MACK GO-J PLUS, MAN 3343S,342 TYPE S1, VOITH 97312, ZF TE-ML 02B,05B,07A,12B,16F,17B,19C,21F, IVECO EXTENDED DRAIN, DAF

### ATHENA SUPER M 80W-90, 85W-140

Athena Super M is a range of heavy duty, long life commercial gear oils recommended for highly stressed manual gearboxes and heavily loaded axle drives where an oil meeting the following specifications is required. **Approved by Scania.**  
API MT-1,GL-5, SAE J2360, MAN M3343 TYPE M, 341 TYPE E-2, SCANIA STO 1:0, MACK GO-J, MIL-PRF-2105E, ARVIN MERITOR 0-76-N, MB 235.0 ZF TE-ML 02B,05A,07A,08,12E,16B-D,17B,19B,21A

### ATHENA SYNGEAR 75W-90 (FULLY SYNTHETIC)

Syngear 75W-90 is manufactured from high quality synthetic base stocks and a combination of performance additives which provide a gear lubricant designed for today's transport conditions.  
API GL-5, MIL-L-2105D, ZF TE-ML 07A,08

### ATHENA HD 75W-80, 75W-90, 80W-90, 85W-140, 80W, 90

High load carrying extreme pressure gear oils.  
API GL-5, MIL-L-2105D

### ATHENA EP 80W, 90, 80W-90, 85W-140

Extreme pressure gear oils for use in low to medium duty conditions.  
API GL-4, MIL-L-2105

### AUTOTRANS DEXRON III (SEMI SYNTHETIC)

High performance ATF designed to provide the correct frictional qualities demanded by many modern commercial transmissions.  
GM DEXRON IIIH, FORD MERCON, ALLISON C4, TES-389, CATERPILLAR TO-2, MB 236.10, 236.9, 236.7, 236.6, 236.5, 236.1, MAN 339F, 339 V1 & Z1, 339 V2 & Z2, VOITH 55.6335, 55.6336, VOLVO 97341, 97340, ZF TE-ML 02F, 03D, 04D, 09, 11A, 11B, 14A, 14B, 16L, 17C

### AUTOTRANS UNIVERSAL

A versatile ATF suitable for use in a wide variety of automatic gearboxes and power steering units.  
GM DEXRON IID, FORD MERCON, FORD M2C138CJ, M2C166H, ALLISON C4, CATERPILLAR TO-2, MB 236.1, ZF TE-ML 09,11,14



FULL DETAILS ON THESE HIGHLY ADVANCED PRODUCTS AND DATA SHEETS ARE AVAILABLE FROM THE TECHNICAL SERVICES DEPARTMENT ON REQUEST.

## GREASES

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### LITHIUM COMPLEX

A specially developed multi-purpose lubricating grease for all anti-friction and plain bearing applications. This grease has exceptional stability performance over a wide, elevated temperature range and can allow longer periods between re-lubrication compared with standard greases.

### LIBRA EP2

A premium lithium soap thickened high melting point grease, EP treated with good anti-corrosion properties. An excellent multi-purpose grease. For use in anti-friction and plain bearing applications subjected to high load conditions.

### LIBRA EP2M

Lithium soap thickened grease fortified with molybdenum disulphide. Ideal for use in anti-friction and plain bearings under high load and boundary conditions.

### LIBRA 00EP / LIBRA 000EP

Semi fluid lithium soap thickened greases recommended for use in closed systems incorporating spur, worm, helical and bevel gears.

### IVO FLOW

A premium semi-fluid calcium grease dyed red. The perfect choice for 'Autolube' chassis lubrication systems.

### FIFTH WHEEL GREASE

A quality adhesive grease with extra lubricity given by added graphite. Suitable for fifth wheel lubrication.

### COPPER GREASE

Lead free, copper based anti seize compound for use on threaded connections, linkages and slow moving bearings exposed to environmental and chemical contamination. High resistance to salt water ingress.

## ANCILLARY PRODUCTS

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BRAKE FLUID, ANTIFREEZE LL, ANTIFREEZE MEG  
DELTA DEGREASER, FLEETWASH, OIL ABSORBENT  
GRANULES, HYGIENICS HAND CLEANER, AEROSOLS





## COMMERCIAL OVERVIEW

The combination of ever increasing demands of the transport and plant industries and advanced engine technology has emphasised the need for lubricants at the leading edge of performance. In response to this, Exol have developed a range of lubricants to satisfy not only today's applications but also the engines of tomorrow.

Whatever the nature and mix of your fleet and equipment Exol can supply products ranging from basic lubricants through to highly advanced formulations designed to meet the latest American Petroleum Institute (API) standard and those required by European Automobile Manufacturers (ACEA).

### EURO V

The power output of the latest generation Heavy Duty Commercial Vehicle engines coupled with the new emission regulations have seen the demands on the lubricant increase even further. The introduction of new engine oil requirements for after treatment compatibility, greater durability and fuel economy improvement have resulted in a change in the types of engine oil used in Europe. With this in mind product development and product approvals are at the forefront of Exol's lubricant design and our range of Heavy Duty Commercial engine oils meet and exceed the challenges ahead.

	LONG HAUL			SHORT HAUL		
	EGR	DPF	SCR	EGR	DPF	SCR
CUMMINS			✓			✓
MB			✓			✓
MAN	✓	✓		✓	✓	
SCANIA	✓			✓		
VOLVO			✓			✓
IVECO			✓			✓
DAF			✓	✓	✓	✓

## ACEA E SEQUENCES - FOR DIESEL ENGINES MEETING EURO I - EURO V EMISSION REQUIREMENTS

### HIGH SAPS

UHPD



**TAURUS XHPD 10W-40**

Some EGR engines, some SCR units without DPF.

### LOW/MID SAPS



**TAURUS EURO 5 10W-40**

EGR engines, SCR units with or without DPF and with low sulphur Diesel.

**EXTENDED DRAIN PERFORMANCE**

SHPD



**TAURUS SHPD E7 15W-40**

Most EGR engines, most SCR units without DPF.



**TAURUS SHPD E9 15W-40**

Most EGR engines, most SCR units with or without DPF and with low sulphur Diesel.

**STANDARD DRAIN PERFORMANCE**

**SCR/EGR (EURO V)**

**DPF (EURO V/VI)**

## AFTER TREATMENT DEVICES

### DPF

A DPF, or Diesel Particulate Filter, is an after treatment device fitted to the vehicle to reduce particulate matter from the exhaust gas. These particulates are captured by the filter and then burnt off at the exhaust temperature.

Using incorrect oil will cause premature blocking of the DPF system which in turn will increase the exhaust back pressure causing increased fuel consumption.

### SCR

SCR or Selective Catalytic Reduction is an after treatment system that converts the harmful NOx (oxides of nitrogen) in the exhaust gas into nitrogen and water.

Using incorrect oil will cause poisoning of the catalytic metals thus deactivating the SCR unit, which in turn will increase emissions.

### EGR

EGR or Exhaust Gas Recirculation is a type of engine design that re-circulates part of the expelled exhaust gas back into the combustion chamber. This lowers the temperature of combustion, which in turn will lower the level of NOx produced.

Using incorrect oil will cause the oil to thicken up quicker because of the higher soot loading, which in turn will increase engine wear.



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