



**VAULT LUBE**



**PRODUCT  
CATALOGUE**

 **VAULT LUBE**



## PRODUCT DESCRIPTION

TRIBO OW-16 HYPERMAX Innovative energy-saving low-viscosity engine oil of the latest generation on a bi-synthetic (PAO + esters) basis for modern gasoline engines. Designed in accordance with the latest API SP and ILSAC GF-6 standards, it is especially recommended for hybrid cars, but it is also suitable for non-hybrid, requiring oils of such viscosity and with similar performance properties.

## PRODUCT PROPERTIES:

- Unsurpassed fuel economy in all modes due to ultra-low kinematic (at 100°C) and reduced high-temperature viscosity HTHS (at 150°C) and exceptional anti-friction properties.
- Highly effective additive package and low-viscosity bi-synthetic base provide confident cold start in the most severe conditions, which significantly reduces starting engine wear and idle wear.
- It does not form deposits in the combustion chamber, especially in the area of piston rings and valves, and due to its excellent washing and dispersing properties and the highest thermal oxidative stability, it effectively fights all types of deposits in all other engine components and keeps them clean throughout the entire interval between replacements.
- The ester oil components provide excellent anti-wear properties due to the exceptional strength of the oil film even at extreme operating temperatures, which, combined with excellent pumpability, significantly increases engine life even in "start-stop" driving modes.
- For turbocharged engines with direct injection, the unique formulation of the oil completely reduces to zero the effect of premature ignition of the LSPI (Low Speed Pre-Ignition) fuel mixture.
- Neutral to sealing materials. It eliminates leaks, in combination with reduced volatility provides extremely low oil consumption and has an increased drain interval.
- Significantly extends engine life. It is used in engines with extended oil change intervals (Long Life) and conventional.

## PRODUCT SPECIFICATIONS

### SAE GRADE

API GRADE

DENSITY @ 20°C

VISCOSITY @ 40°C

VISCOSITY @ 100°C

VISCOSITY INDEX

FLASH POINT

POUR POINT

TBN

**OW16**

SQ

0.846

34.8

6.9

163

220

-45

8.5

## MEET THE SPECIFICATIONS OF :

HONDA ULTRA GREEN, HONDA ULTRA NEXT, HONDA 08215-99974, HONDA 08216-99974, HONDA 08232-P99S1LHE, MITSUBISHI MZ102661, MITSUBISHI MZ102662, MITSUBISHI DIAQUEEN ECO PLUS, NISSAN HYBRID ENGINE, KLANM-01A04 EXTRA SAVE, TOYOTA 08880-11005

# SAE OW-16

FULLY SYNTHETIC MOTOR OIL



# SAE 0W-20

FULLY SYNTHETIC MOTOR OIL



## PRODUCT DESCRIPTION

Fully synthetic fuel economy oil for gasoline and diesel engines in passenger cars, especially for the most recent Volvo engines. 0W-20 is intended for the new Volvo Engine Architecture (VEA engines) technology.

## PRODUCT PROPERTIES:

- Exceptional fuel economy due to reduced high-temperature viscosity HTHS and optimal anti-friction properties.
- Highly effective additive package and low-viscosity synthetic base provide confident cold start in the most severe conditions, thereby significantly reducing engine starting wear.
- Due to its excellent washing and dispersing properties and the highest thermal oxidative stability, it effectively fights against all types of deposits and keeps engine parts clean throughout the entire interval between replacements. Helps to remove previously formed deposits.
- The latest oil components provide excellent anti-wear properties due to the exceptional strength of the oil film, which, combined with excellent pumpability, significantly increases engine life even in "start-stop" driving modes.
- Compatible with the latest exhaust gas aftertreatment systems.
- A special low-viscosity base optimizes the operation of engines with direct injection systems, with turbocharging, as well as with various mechanisms for changing the valve timing (VTEC, i-VTEC, VVT-i, VVTL-i, CVVT, VVL, MIVEC, AVCS (AVLS), CVTCS and others.)
- It is used in engines with extended oil change intervals (Long Life) and conventional.

## PRODUCT SPECIFICATIONS

### SAE GRADE

API GRADE

DENSITY @ 20°C

VISCOSITY @ 40°C

VISCOSITY @ 100°C

VISCOSITY INDEX

FLASH POINT

POUR POINT

TBN

**0W20**

SN

0.842

47.1

8.6

175

200

-48

7.2

## MEET THE SPECIFICATIONS OF :

GM DEXOS1 GEN2, HONDA HTO-06, GM 6094M, CHRYSLER MS-6395, CHRYSLER MS-13340, JAGUAR STJLR.51.5122, LAND ROVER STJLR.51.5122, FIAT 9.55535-CR1, FORD WSS-M2C930-A, FORD WSS-M2C930-B, FORD WSS-M2C925-A, FORD WSS-M2C925-B, FORD WSS-M2C945-B1, FORD WSS-M2C948-B MAZDA, SUZUKI

## PRODUCT DESCRIPTION

Innovative energy-saving premium bi-synthetic engine oil for modern gasoline engines. Designed to meet the requirements of American, Japanese and Korean automakers.

## PRODUCT PROPERTIES:

- Exceptional fuel economy due to reduced high-temperature viscosity HTHS and optimal anti-friction properties.
- Highly effective additive package and low-viscosity synthetic base provide confident cold start in the most severe conditions, thereby significantly reducing engine starting wear.
- Due to its excellent washing and dispersing properties and the highest thermal oxidative stability, it effectively fights against all types of deposits and keeps engine parts clean throughout the entire interval between replacements. Helps to remove previously formed deposits.
- The latest oil components provide excellent anti-wear properties due to the exceptional strength of the oil film, which, combined with excellent pumpability, significantly increases engine life even in "start-stop" driving modes.
- Compatible with the latest exhaust gas aftertreatment systems.
- A special low-viscosity base optimizes the operation of engines with direct injection systems, with turbocharging, as well as with various mechanisms for changing the valve timing (VTEC, i-VTEC, VVT-i, VVTL-i, CVVT, VVL, MIVEC, AVCS (AVLS), CVTCS and others.)
- It is used in engines with extended oil change intervals (Long Life) and conventional.

## PRODUCT SPECIFICATIONS

### SAE GRADE

API GRADE

DENSITY AT 20°C

VISCOSITY @ 40°C CST

VISCOSITY @ 100°C CST

VISCOSITY INDEX

FLASH POINT

POUR POINT

TBN

5W20

SP

0.846

47.8

8.7

163

223

-42

11.2

## MEET THE SPECIFICATIONS OF :

GM DEXOS1 GEN2, HONDA HTO-06, GM 6094M, CHRYSLER MS-6395, CHRYSLER MS-13340, JAGUAR STJLR.51.5122, LAND ROVER STJLR.51.5122, FIAT 9.55535-CR1, FORD WSS-M2C930-A, FORD WSS-M2C930-B, FORD WSS-M2C925-A, FORD WSS-M2C925-B, FORD WSS-M2C945-B1, FORD WSS-M2C948-B MAZDA, SUZUKI

# SAE 5W-20

FULLY SYNTHETIC MOTOR OIL



# SAE 5W-30

FULLY SYNTHETIC MOTOR OIL



## PRODUCT DESCRIPTION

Innovative, energy-saving ester-containing fully synthetic premium engine oil for modern gasoline engines. Designed in accordance with the requirements of American, Japanese and Korean automakers specifically for engines with direct injection systems (GDI, D4, NEO-DI, CGI DISI, I-CDTI), turbocharged.

## PRODUCT PROPERTIES:

- High fuel efficiency due to reduced viscosity and optimal anti-friction properties.
- Highly effective additive package and synthetic base provide confident cold start in any conditions, thereby significantly reducing engine starting wear.
- Due to its excellent washing and dispersing properties and the highest thermal oxidative stability, it effectively fights against all types of deposits and keeps engine parts clean throughout the entire interval between replacements.
- The presence of ester components in combination with optimal viscosity- temperature characteristics guarantees the highest strength of the oil film, which provides excellent anti-wear properties which, combined with excellent pumpability, significantly increase engine life even in the most severe operating conditions.
- Compatible with the latest exhaust gas aftertreatment systems.
- A special synthetic base optimizes the operation of engines with direct injection systems, with turbocharging, as well as with various mechanisms for changing the valve timing (VTEC, i-VTEC, VVT-i, VVTL-i, CVVT, VVL, MIVEC, AVCS (AVLS), CVTCS and others.)
- It is used in engines with extended oil change intervals (Long Life) and conventional.

## PRODUCT SPECIFICATIONS

### SAE GRADE

API GRADE

DENSITY @ 20°C

VISCOSITY @ 40°C

VISCOSITY @ 100°C

VISCOSITY INDEX

FLASH POINT

POUR POINT

TBN

### 5W30

SN

0.848

66.2

11.2

161

224

-42

7.7

## MEET THE SPECIFICATIONS OF :

GM DEXOS1 GEN2, FORD WSS-M2C929-A,  
FORD WSS-M2C946-A, FORD  
WSS-M2C946-B1, FIAT 9.55535-CR1,  
HONDA HTO-06, GM 6094M, CHRYSLER  
MS-6395, CHRYSLER MS-13340, LEXUS,  
MAZDA, SUZUKI, SSANGYONG

## PRODUCT DESCRIPTION

Innovative, energy-saving ester-containing fully synthetic premium engine oil for modern gasoline engines. Designed in accordance with the requirements of American, Japanese and Korean automakers specifically for engines with direct injection systems (GDI, D4, NEO-DI, CGI DISI, I-CDTI), turbocharged.

## PRODUCT PROPERTIES:

- High fuel efficiency due to reduced viscosity and optimal anti-friction properties.
- Highly effective additive package and synthetic base provide confident cold start in any conditions, thereby significantly reducing engine starting wear.
- Due to its excellent washing and dispersing properties and the highest thermal oxidative stability, it effectively fights against all types of deposits and keeps engine parts clean throughout the entire interval between replacements.
- The presence of ester components in combination with optimal viscosity- temperature characteristics guarantees the highest strength of the oil film, which provides excellent anti-wear properties which, combined with excellent pumpability, significantly increase engine life even in the most severe operating conditions.
- Compatible with the latest exhaust gas aftertreatment systems.
- A special synthetic base optimizes the operation of engines with direct injection systems, with turbocharging, as well as with various mechanisms for changing the valve timing (VTEC, i-VTEC, VVT-i, VVTL-i, CVVT, VVL, MIVEC, AVCS (AVLS), CVTCS and others.)
- It is used in engines with extended oil change intervals (Long Life) and conventional.

## PRODUCT SPECIFICATIONS

### SAE GRADE

API GRADE

DENSITY @ 20°C

VISCOSITY @ 40°C

VISCOSITY @ 100°C

VISCOSITY INDEX

FLASH POINT

POUR POINT

TBN

**5W30**

SP

0.848

66.2

11.2

161

235

-42

10.4

## MEET THE SPECIFICATIONS OF :

GM DEXOS1 GEN2, FORD WSS-M2C929-A,  
FORD WSS-M2C946-A, FORD  
WSS-M2C946-B1, FIAT 9.55535-CR1,  
HONDA HTO-06, GM 6094M, CHRYSLER  
MS-6395, CHRYSLER MS-13340, LEXUS,  
MAZDA, SUZUKI, SSANGYONG

# SAE 5W-30

FULLY SYNTHETIC MOTOR OIL



# SAE 5W-40

FULLY SYNTHETIC MOTOR OIL



## PRODUCT DESCRIPTION

Innovative universal ester-containing premium motor oil for modern gasoline and diesel engines with and without turbocharging, including "old" brands and high mileage. Designed based on the requirements of European producers.

## PRODUCT PROPERTIES:

- Ester technology and a synthetic base with an expanded range of viscous-temperature properties ensures efficient engine operation in all operating modes: during cold start, in urban mode, in highway mode, as well as under increased load (when driving on impassable roads, uphill, on the move with trailer, maximum load) and at high ambient temperatures.
- Great for active driving and does not lose its properties when using fuel of variable quality (with sulfur content up to 500 ppm) due to the large reserve of alkaline number (TBN).
- Synthetic ester-containing base combined with a modern additive package preserves engine power parameters throughout the entire interval between replacements.
- The ester oil components provide excellent anti-wear and anti-friction properties due to the exceptional strength of the oil film, which, combined with excellent pumpability, significantly increases engine life even in "start-stop" driving modes and during cold start.
- Due to its excellent washing and dispersing properties and the highest thermal oxidative stability, it effectively fights against all types of deposits and keeps engine parts clean throughout the entire interval between replacements.
- It is applied in engines with the extended interval of replacement of oil (Long Life) and ordinary.
- Applicable to 4T wet clutch motorcycle engines.

## PRODUCT SPECIFICATIONS

### SAE GRADE

API GRADE

DENSITY @ 20°C

VISCOSITY @ 40°C

VISCOSITY @ 100°C

VISCOSITY INDEX

FLASH POINT

POUR POINT

TBN

### 5W40

SP

0.845

95

15.2

175

220

-45

7.5

## MEET THE SPECIFICATIONS OF :

MB 229.5, MB 229.3, MB 226.5, JASO MA2, VOLKSWAGEN 502 00, VOLKSWAGEN 505 00, PORSCHE A40, RENAULT RN0710, RENAULT RN0700, BMW LL-01, BMW LL-98, PSA B71 2296, FIAT 9.55535-H2, FIAT 9.55535-Z2, CHRYSLER MS-10850, CHRYSLER MS-10896, CHRYSLER MS-12991, GM LL-A-025, GM LL-B-025

## PRODUCT DESCRIPTION

Hydro-synthetic universal motor oil for all types of gasoline engines. Designed to meet VW and DAIMLER requirements.

## PRODUCT PROPERTIES:

- The hydro synthetic base ensures efficient operation of the engine in all operating modes: during cold start, in urban mode and in highway mode.
- Due to its good washing and dispersing properties and high thermal oxidative stability, it effectively fights against all types of deposits (carbon deposits, varnishes) and keeps engine parts clean throughout the entire interval between replacements.
- Contains an effective set of antioxidants due to which it effectively resists aging.
- Saves fuel due to the low viscosity base.
- The hydro-synthetic base combined with a modern additive package preserves engine power parameters throughout the entire interval between replacements.
- Applicable for diesel engines.

## PRODUCT SPECIFICATIONS

### SAE GRADE

API GRADE

DENSITY @ 20°C

VISCOSITY @ 40°C

VISCOSITY @ 100°C

VISCOSITY INDEX

FLASH POINT

POUR POINT

TBN

### 10W30

SN

0.852

72.1

11.1

145

225

-32

7.2

## MEET THE SPECIFICATIONS OF :

ACEA A3/B4, VOLKSWAGEN 505 00,

VOLKSWAGEN 501 01, MB 229.1, ISUZU,

KIA

# SAE 10W-30

FULLY SYNTHETIC MOTOR OIL



# SAE 10W-40

FULLY SYNTHETIC MOTOR OIL



## PRODUCT DESCRIPTION

Innovative universal engine oil on a hydro semi synthetic basis for petrol engines, both new and "old" brands and with a large mileage. Developed on the basis of the requirements of European manufacturers.

## BENEFITS

- The ester technology and the latest generation hydro synthetic base with an extended range of viscosity-temperature properties ensure efficient operation of the engine in all operating modes: cold start, urban mode, highway mode, as well as under increased load (when driving off-road, uphill, driving with a trailer, maximum load) and at high ambient temperatures.
- Perfect for active driving and does not lose its properties when using fuel of variable quality (with a sulphur content of up to 500 ppm) due to a large reserve of the base number (TBN).
- The hydro synthetic ester-containing base, combined with the latest additive package, preserves the engine's power parameters throughout the entire replacement interval.
- The unique wear reduction technology in combination with ester components provides excellent anti-wear and anti-friction properties due to the exceptional strength of the oil film, which, in combination with good pumpability, significantly increases the service life of the engine even in "Start-stop" driving modes and during cold start.
- Due to its excellent detergent-dispersing properties and the highest thermal-oxidative stability, it effectively combats all types of deposits and keeps engine parts clean throughout the entire replacement interval.

## PRODUCT SPECIFICATIONS

### SAE GRADE

API GRADE

DENSITY @ 20°C

VISCOSITY @ 40°C

VISCOSITY @ 100°C

VISCOSITY INDEX

FLASH POINT

POUR POINT

TBN

**10W40**

SN

0.859

115.5

15.7

144

218

-36

8.2

## MEET THE SPECIFICATIONS OF :

ACEA A3/B4, VOLKSWAGEN 505.00,

VOLKSWAGEN 502.00, VOLKSWAGEN

501.01, VOLKSWAGEN 500.00, PSA B71

2294, RENAULT RN0700, RENAULT

RN0710

## PRODUCT DESCRIPTION

Innovative universal engine oil on a hydro semi synthetic basis for petrol engines, both new and "old" brands and with a large mileage. Developed on the basis of the requirements of European manufacturers.

## BENEFITS

- The ester technology and the latest generation hydro synthetic base with an extended range of viscosity-temperature properties ensure efficient operation of the engine in all operating modes: cold start, urban mode, highway mode, as well as under increased load (when driving off-road, uphill, driving with a trailer, maximum load) and at high ambient temperatures.
- Perfect for active driving and does not lose its properties when using fuel of variable quality (with a sulphur content of up to 500 ppm) due to a large reserve of the base number (TBN).
- The hydro synthetic ester-containing base, combined with the latest additive package, preserves the engine's power parameters throughout the entire replacement interval.
- The unique wear reduction technology in combination with ester components provides excellent anti-wear and anti-friction properties due to the exceptional strength of the oil film, which, in combination with good pumpability, significantly increases the service life of the engine even in "Start-stop" driving modes and during cold start.
- Due to its excellent detergent-dispersing properties and the highest thermal-oxidative stability, it effectively combats all types of deposits and keeps engine parts clean throughout the entire replacement interval.

## PRODUCT SPECIFICATIONS

### SAE GRADE

API GRADE

DENSITY @ 20°C

VISCOSITY @ 40°C

VISCOSITY @ 100°C

VISCOSITY INDEX

FLASH POINT

POUR POINT

TBN

**10W40**

SL

0.859

115.5

15.7

144

218

-36

8.2

## MEET THE SPECIFICATIONS OF :

ACEA A3/B4, VOLKSWAGEN 505.00,  
VOLKSWAGEN 502.00, VOLKSWAGEN  
501.01, VOLKSWAGEN 500.00, PSA B71  
2294, RENAULT RN0700, RENAULT  
RN0710

# SAE 10W-40

FULLY SYNTHETIC MOTOR OIL



# SAE 15W-40

SYNTHETIC BLEND MOTOR OIL

## PRODUCT DESCRIPTION

premium quality API SN/CF, high SAPS, ACEA A3/B4 engine oil providing increased engine protection through increased oxidation resistance. It is suitable for many types of petrol, diesel, and LPG four stroke engines in passenger cars and trucks, especially European models without catalytic exhaust systems under both severe and varied operating conditions. It is ideal for use in the professional workshop. It is boosted with Group III base oil to help reduce engine oil oxidation, giving more protection from piston deposits compared to standard SN engine oils. Engine cleanliness is also promoted by the increased level of dispersants in 15W/40 SN/CF. The special additives inhibit the formation of sludge especially under the constant cold temperature operation of urban motoring.

## BENEFITS

- Improved oxidation resistance for better sludge control.
- Control of piston deposits for improved engine cleanliness.
- Better wear protection.
- Protection at high temperatures to resist oxidation, nitration and oil thickening.
- Fast flow at cold temperature starts up.



## PRODUCT SPECIFICATIONS

### SAE GRADE

API GRADE

DENSITY @ 15°C

VISCOSITY @ 40°C

VISCOSITY @ 100°C

VISCOSITY INDEX

FLASH POINT

POUR POINT

TBN

15W40

SL

0.888

118

15.4

135

230

-24

8

## MEET THE SPECIFICATIONS OF :

VOLKSWAGEN 505.00, VOLKSWAGEN 502.00, VOLKSWAGEN 501.01, VOLKSWAGEN 500.00, MB 229.3, MB 229.1, PSA B71 2294, RENAULT RN0700, RENAULT RN0710

## PRODUCT DESCRIPTION

Universal economy-class engine oil, which is a mixture of synthetic components and a high purity mineral base, for modern highly accelerated petrol and diesel engines with and without a turbocharger used in difficult operating conditions and engines with a very high mileage used in various operating conditions.

## BENEFITS

- Reduces the leakage probability and maintains the required oil pressure even for engines with a high mileage due to stable viscosity and excellent compatibility with sealing materials.
- Low volatility decreases oil consumption through burning.
- A thoroughly balanced additive package ensures an efficient service of an engine in all modes of operation: cold start, increased load (off-road and uphill driving, towing, driving with maximum load) and in high-temperature ambient conditions.
- Long-lasting oil film effectively protects from wear, reduces friction and prevents corrosion.
- Ensures reliable lubrication of all engine components under all operating conditions.
- Low ash content and good detergent and dispersing properties minimise the soot and carbon formation and keep engine components clean throughout the entire interval between replacements.
- Natural antioxidants effectively resist ageing.

## PRODUCT SPECIFICATIONS

### SAE GRADE

API GRADE

DENSITY @ 15°C

VISCOSITY @ 40°C

VISCOSITY @ 100°C

VISCOSITY INDEX

FLASH POINT

POUR POINT

TBN

### 20W50

SL

0.888

182

20.4

130

246

-27

7.3

## MEET THE SPECIFICATIONS OF :

VOLKSWAGEN 505.00, VOLKSWAGEN 502.00, VOLKSWAGEN 501.01, VOLKSWAGEN 500.00, MB 229.3, MB 229.1, PSA B71 2294, RENAULT RN0700, RENAULT RN0710

# SAE 20W-50

SYNTHETIC BLEND MOTOR OIL



# SAE 10W-30

SYNTHETIC BLEND DIESEL OIL

## PRODUCT DESCRIPTION

Series of heavy duty diesel engine oils, developed primarily for high output naturally aspirated or super/turbo charged diesel engines, operating under severe conditions. It is formulated from high quality base oils and chemical additives that provide effective control with respect to piston cleanliness and bore polishing as well as excellent wear control, soot handling and engine oil stability.

## BENEFITS

- Very good oxidation stability and soot handling capability that allows long drain intervals- Provides effective control with respect to piston cleanliness and bore polishing.
- Very good detergency and dispersancy ability to prevent deposits formation and sludge.
- Optimal viscosity either at high or low oil operation temperatures.
- Mixed fleet engine oil for both heavy/light duty diesel as well as gasoline engines.
- Improved shear stability.
- Extended engine oil drain intervals without frequent top-up requirements
- Maximizes engine durability.
- Improves engine oil filter performance.
- Suitable for engines designed to meet Euro II/III/IV and Bharat Stage II/III/IV norms



## PRODUCT SPECIFICATIONS

### SAE GRADE

API GRADE

DENSITY @ 15°C

VISCOSITY @ 40°C

VISCOSITY @ 100°C

VISCOSITY INDEX

FLASH POINT

POUR POINT

TBN

### 10W30

CI-4

0.875

83

12.2

145

234

-45

10.7

## MEET THE SPECIFICATIONS OF :

CAT ECF-2, CUMMINS CES 20076/77/78,  
DETROIT DIESEL DDC 93K214, DEUTZ  
DQC III-18, GLOBAL DHD-1, JASO DH-1,  
MACK EO-N PP, MAN M 3275, MB-AP-  
PROVAL 228.3, MTU TYPE 2, RENAULT  
RLD-2, VOLVO VDS-3

## PRODUCT DESCRIPTION

Highly refined economy-class synthetic engine oil for highly accelerated diesel engines with and without a turbocharger. Suits high mileage engines operating in various operating conditions. Innovative all-weather mineral-synthetic motor oil for modern heavy duty and high-speed diesel engines with and without turbocharging, operated in difficult conditions.

## BENEFITS

- Ester components in combination with the highest quality mineral-synthetic base that meets GLOBAL DHD-1 requirements, featuring optimal viscosity in a wide temperature range, provide excellent anti-friction, anti-friction and anti-wear properties, which significantly extend the life of equipment in all, even the most extreme, operating modes in a wide range of ambient temperatures and provides significant fuel savings.
- The ester components in combination with natural antioxidants provide increased thermal oxidative stability to the oil, which, in combination with excellent detergent-dispersant properties and low ash content, effectively reduces the formation of scaling and varnish, prevents deposits of all kinds and maintains engine parts clean throughout the service between replacements.
- A unique ester-containing formulation provides oil resistance to aging, meanwhile, by reducing evaporation it reduces oil scaling "waste", which enables it to be used in engines with a Long Life up to 45,000 km interval and conventional motors.

## PRODUCT SPECIFICATIONS

### SAE GRADE

API GRADE

DENSITY @ 15°C

VISCOSITY @ 40°C

VISCOSITY @ 100°C

VISCOSITY INDEX

FLASH POINT

POUR POINT

TBN

**15W40**

CI-4

0.887

118

15.6

140

240

-27

10

## MEET THE SPECIFICATIONS OF :

MB 228.1, MTU TYPE 2, DEUTZ DQC III, MACK EO-N, MACK EO-M PLUS, MAN M 3275-1, RENAULT RLD-2, VOLVO VDS-3, CATERPILLAR ECF-2, CATERPILLAR ECF-1-A, CUMMINS CES 20076, CUMMINS CES 20077, CUMMINS CES 20078, DETROIT DIESEL 93K215

# SAE 15W-40

SYNTHETIC BLEND DIESEL OIL



# SAE 20W-50

SYNTHETIC BLEND DIESEL OIL



## PRODUCT DESCRIPTION

It is a robust engine oil, developed according to the latest oil consumption and exhaust emission regulations. It meets all current requirements for European, American and Japanese diesel and gasoline engine oils. It is especially suitable for mixed fleet application, like gasoline, LPG and light loaded diesel engines whether or not turbo charged and with or without catalytic converter. Due to the wide range of application, the stock level for both the fleet owner, as well as the retailer can be reduced.

## BENEFITS

- Highly viscous mineral-synthetic base with the utmost quality that meets the requirements of GLOBAL DHD-1 provides excellent anti-friction and anti-wear properties, significantly extending the life of the equipment compared to counterpart oils under the most extreme operating modes. Distinguished by the low sulphate ash content.
- Compared with counterparts, has higher thermal oxidation stability which, in combination with excellent detergent-dispersant properties effectively reduces the formation of scaling and varnish, prevents deposits of all kinds and maintains engine parts very clean throughout the service between replacements.
- Unique dispersant additives effectively support soot particles in suspension.
- Perfectly compatible with all types of gasketing, and has a low tendency to leakage even when worn, thanks to the high viscosity base.
- Contains components that prevent oxidation and deposition of contaminants on the pistons and O-rings; completely removed from the cylinder walls by oil control rings, which, in combination with low evaporation, significantly reduces oil waste due to scaling even on worn engines and allows it to be used in engines with long life and ordinary oils.

## PRODUCT SPECIFICATIONS

### SAE GRADE

API GRADE

DENSITY @ 15°C

VISCOSITY @ 100°C

VISCOSITY @ 40°C

VISCOSITY INDEX

FLASH POINT

POUR POINT

TBN

### 20W50

CI-4

0.888

19.1

171.5

126

227

-24

8.9

## MEET THE SPECIFICATIONS OF :

VOLKSWAGEN 501.01/505.00, MB: 228.1, 229.1, VOLVO: VDS, MAN: 271, MACK: EO/M, ALLISON: C-4, MTU TYPE 1, DDC OIL CATEGORY 1, RENAULT RD, ZF TE-ML 02C/03A/04B/04C/07C, CAT ECF-1

## PRODUCT DESCRIPTION

It is a high-efficiency monograde mineral engine oil for heavy-load diesel-powered engines with and without a turbocharger operating under very harsh conditions at ambient temperatures more than -15°C.

## BENEFITS

- Due to the absence of viscosities, it is less susceptible to destruction and ageing than analogues all-season oils, it has an extended expected life which, when combined with a low evaporation ability that reduces oil consumption through burning, allows using it in engines with an extended oil replacement age.
- A highest-quality mineral base and thoroughly selected additives ensure good antifriction and antiwear properties that significantly extend the expected life of the equipment in comparison with oil analogues in all, even the most extreme, operation modes.
- In contrast with analogues, it has an enhanced thermo-oxidising stability due to natural antioxidants that, when combined with good cleaning-dispersing properties that reduce the formation of carbon deposits and lacquer, prevent the formation of deposits of all types and maintain engine parts clean throughout the entire time between replacements.
- It has fair low-temperature properties.
- It effectively protects engine parts against all types of corrosion.
- It may be used when operating on fuel with an increased sulphur content.

## PRODUCT SPECIFICATIONS

### SAE GRADE

API GRADE

DENSITY @ 15 °C

VISCOSITY @ 40 °C

VISCOSITY @ 100 °C

VISCOSITY INDEX

FLASH POINT

POUR POINT

TBN

50

CI-4

0.902

155

20.6

95

240

-18

10.8

## MEET THE SPECIFICATIONS OF :

JASO DH-1, GLOBAL DHD-1, CATERPIL-LAR ECF-2 / ECF-1-A, CUMMINS CES 20076, CUMMINS CES 20077, CUMMINS CES 20078, DETROIT DIESEL 93K215, DEUTZ DQC-III, MACK EO-N, MACK EO-M PLUS, MB 228.1, MB 228.3, MTU TYPE 2, RENAULT RLD-2, VOLVO VDS-3, MAN M 3275-1

# SAE-50

PREMIUM MINERAL DIESEL OIL



# SAE 20W-50

PREMIUM MINERAL DIESEL OIL



## PRODUCT DESCRIPTION

It is a high-efficiency monograde mineral engine oil for heavy-load diesel-powered engines with and without a turbocharger operating under very harsh conditions at ambient temperatures more than -15°C.

## BENEFITS

- Due to the absence of viscosities, it is less susceptible to destruction and ageing than analogues all-season oils, it has an extended expected life which, when combined with a low evaporation ability that reduces oil consumption through burning, allows using it in engines with an extended oil replacement age.
- A highest-quality mineral base and thoroughly selected additives ensure good antifriction and antiwear properties that significantly extend the expected life of the equipment in comparison with oil analogues in all, even the most extreme, operation modes.
- In contrast with analogues, it has an enhanced thermo-oxidising stability due to natural antioxidants that, when combined with good cleaning-dispersing properties that reduce the formation of carbon deposits and lacquer, prevent the formation of deposits of all types and maintain engine parts clean throughout the entire time between replacements.
- It has fair low-temperature properties.
- It effectively protects engine parts against all types of corrosion.
- It may be used when operating on fuel with an increased sulphur content.

## PRODUCT SPECIFICATIONS

### SAE GRADE

API GRADE

DENSITY @ 15 °C

VISCOSITY @ 40 °C

VISCOSITY @ 100 °C

VISCOSITY INDEX

FLASH POINT

POUR POINT

TBN

70

CI-4

0.908

215

19.5

99

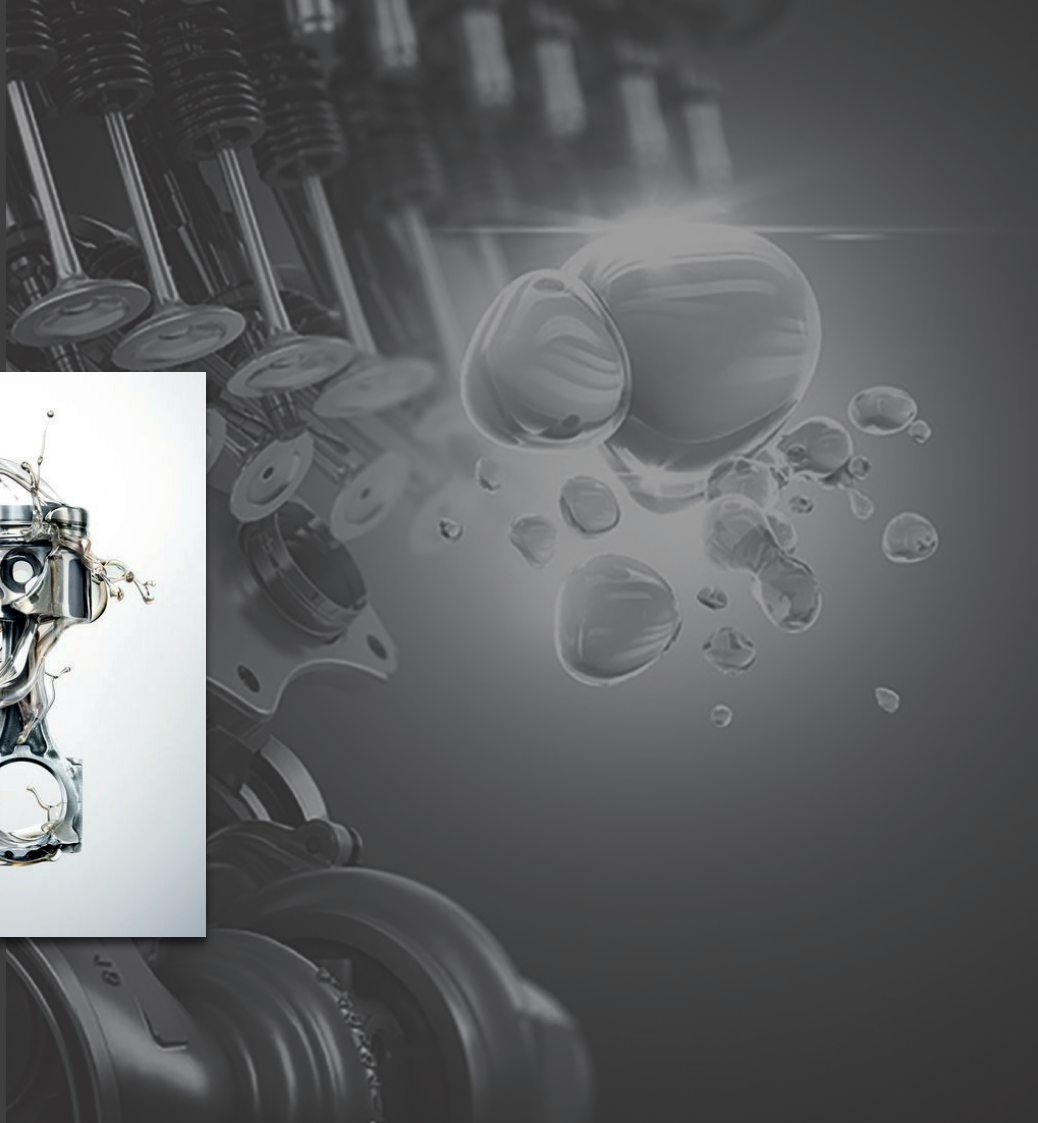
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-9


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## MEET THE SPECIFICATIONS OF :


JASO DH-1, GLOBAL DHD-1, CATERPIL-LAR ECF-2 / ECF-1-A, CUMMINS CES 20076, CUMMINS CES 20077, CUMMINS CES 20078, DETROIT DIESEL 93K215, DEUTZ DQC-III, MACK EO-N, MACK EO-M PLUS, MB 228.1, MB 228.3, MTU TYPE 2, RENAULT RLD-2, VOLVO VDS-3, MAN M 3275-1




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