



**SOLUTION OIL®**

**PRODUCT  
INFORMATION**

**2020**

Solutoin Oil Türkiye Distribütörlüğü

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## **About Solution Oil**

Solution Oil is the new high quality brand in lubricants. The solution for your engine! We offer products for passenger cars, vans, trucks, motor bikes and more! Next to the products in the catalog, we develop custom solutions for our customers around the world. Therefore every customer can trust the superior quality, with a tailor made product, appropriate to the needs of the region.

Solution Oil is produced in the Netherlands. That is why you will find the “Made in Holland” stamp on all our products. Our producer is one of the largest independent lubricant producers in Europe and is fully ISO certified. Thanks to the advanced production facility, where safety, health and the environment are highly valued, Solution Oil can guarantee its high quality at all times.

## **Quality certifications**

The quality of Solution Oil’s products is guaranteed. The lubricants are 100% reliable in their application. Production is ISO certified on the basis of ISO 9001-2015 for quality management, ISO 14001-2015 for environmental management and ISO 45001 for work-related safety and health.

Lubricating oil quality is measured by OEM specifications and approvals. Together with the lubricant manufacturer, the OEM (Original Equipment Manufacturer) publishes specifications for a lubricant or engine oil. That publication lists the specific tests and test limits for the lubricant manufacturer to formulate the engine oil. Our manufacturer determines the correct combination of base oils and additives to ensure that Solution Oil's final product meets the OEM specification.

In addition to “meeting the specification”, a motor oil can also be OEM approved. The end product is then submitted by the manufacturer for official approval by the OEM. When all requirements are met after intensive testing, the OEM grants an official approval. The OEM is thus an official proof of quality and is often of interest to official car and truck dealerships.

Quality is of paramount importance at Solution Oil. After all, our oil is the solution for your engine. In addition to our ultra-modern production facility, the laboratory constantly checks for quality, from raw materials to filling line. Sustainability also plays a major role. Together with our producer, we work on constant product improvement and we strive for an increasingly longer renewal period.

### **Product range**

Solution Oil can offer a very wide selection of specifications with more than 800 different types of lubricants with the most recent OEM approvals to suit the customer's needs.

We have put together a Solution Oil collection in this catalog. Other specifications in the market can be added to the assortment on request.

### **Packaging**

The minimum order quantity is 5 pallets per product for boxes.

The minimum order quantity for neutral (labelled but not printed) drums is 2 pallets for 60L, 2 pallets for 200L.

1 pallet contains:     - 30 boxes (4 x 5L per box)  
                              - 40 boxes (4 x 4L per box)  
                              - 40 boxes (12 x 1L per box)

1 pallet contains: 4 x 200L drum

1 pallet contains: 18 x 60L drum



1L

4L

5L

20L



60L

200L



**SOLUTION OIL**

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**HEAVY DUTY**

A top quality fuel economy diesel engine oil based on the latest additive technology combined with specially selected synthetic base oils. This engine oil has the following properties:

- a very powerful detergency prevents deposits in the engine
- a very strong dispersion that prevents from precipitation and sludge
- a decreased tendency to particle forming increases the lifetime of the particle filter
- a powerful activity against, corrosion and foam
- a high and natural viscosity index
- a low sulphated ash, phosphor and sulphur content (low SAPS)
- a very powerful activity against wear resulting in strongly reduced wear of piston-rings and cylinder-liners
- a lower fuel consumption
- contributes to a decrease of the maintenance costs

### Application

This fuel saving lubricant has mainly been developed for heavy diesel engines even under the toughest operation conditions and all the year round. This product is very suitable for on-road Euro 6 and off-road EU Stage IV engines in combination with diesel fuel with a low sulphur content, where the specified specifications are requested. This engine oil is also suitable for application in engines with or without particle filters and exhaust gas after treatment systems. This oil is backward compatible with previous heavy duty diesel engine specifications of: API CJ-4, CI-4, CH-4, etc., CAT ECF-2, ECF-1-a, MB Euro 3, 2, 1, Volvo VDS-4, VDS-3, etc., Renault RDL-2, RDL, etc., Mack EO-O PP, EO-N, etc., MAN M3477, M3271-1, MTU Type 2.1, Deutz DQC IV-10 LA, III-10 LA, etc., JASO DH-1, Cummins CES 20081 and DD DFS 93K218.

### Specifications

ACEA E6, E7, E9  
API CK-4/SN  
Deutz DQC IV-18 LA  
Mack EOS-4.5  
MB-Approval 228.51  
Renault VI RLD-3  
Volvo VDS-4.5  
Meets the requirements of:  
Cat ECF-3  
Cummins CES 20086  
Detroit Diesel DFS 93K222  
JASO DH-2  
MAN M 3677 (pending)  
MTU Type 3.1  
Scania Low Ash (pending)

### Typicals

Density at 15 °C, kg/l	0,856
Viscosity -30 °C, mPa.s	5860
Viscosity 40 °C, mm <sup>2</sup> /s	71,80
Viscosity 100 °C, mm <sup>2</sup> /s	11,90
Viscosity index	162
Flash Point COC, °C	216
Pour Point, °C	-42
Total Base Number, mgKOH/g	9,8
Sulphate Ash, %	0,89

A top quality diesel engine oil based on the latest additive technology combined with special and synthetic base oils. This engine oil has the following properties:

- a very powerful detergency prevents deposits in the engine
- a very strong dispersion that prevents from precipitation and sludge
- a decreased tendency to particle forming increases the lifetime of the particle filter
- a powerful activity against corrosion and foam
- a high and stable natural viscosity index
- a low sulphated ash, phosphor and sulphur content (low SAPS)
- a powerful activity against wear, resulting in strongly reduced wear of piston-rings and cylinder-liners
- contributes to a decrease of the maintenance costs

### **Application**

This lubricant has mainly been developed for heavy diesel engines even under the toughest operation conditions and all the year round. This product is very suitable for Euro 4, Euro 5 and Euro 6 engines in combination with diesel fuel with a low sulphur content. This engine oil is also suitable for application in engines with or without particle filters and exhaust catalysts. This motor oil is one of the group "low SAPS" lubricants.

### **Performance level**

ACEA E6, E7  
API CI-4  
Deutz DQC IV-10 LA  
Mack EO-N  
MAN M 3477/M 3271-1  
MB-Approval 228.51  
NATO-code O-1180, TL 9150-0107/3  
Renault VI RLD-2  
Volvo VDS-3  
Meets the requirements of:  
Cummins CES 20076/20077  
DAF Long Drain  
JASO DH-2  
MTU Type 3.1  
Renault VI RXD/RGD

### **Typicals**

Density at 15 °C, kg/l	0,860
Viscosity -25 °C, mPa.s	6120
Viscosity 40 °C, mm <sup>2</sup> /s	95,90
Viscosity 100 °C, mm <sup>2</sup> /s	14,30
Viscosity Index	154
Flash Point COC, °C	222
Pour Point, °C	-36
Total Base Number, mgKOH/g	10,1
Sulphate Ash, %	0,95



## **SOLUTION OIL®**

### **TURBOSYNTH LSP PERFORMANCE 10W40**

A top quality diesel engine oil based on the latest additive technology combined with special and synthetic base oils. This engine oil has the following properties:

- a very powerful detergency prevents deposits in the engine
- a very strong dispersion that prevents from precipitation and sludge
- a decreased tendency to particle forming increases the lifetime of the particle filter
- a powerful activity against corrosion and foam
- a high and stable natural viscosity index
- a low sulphated ash, phosphor and sulphur content (low SAPS)
- a powerful activity against wear, resulting in strongly reduced wear of piston-rings and cylinder-liners
- contributes to a decrease of the maintenance costs

The product may be claimed only to meet the mentioned performance levels.

#### **Application**

This lubricant has mainly been developed for heavy diesel engines even under the toughest operation conditions and all the year round. This product is very suitable for Euro 4, Euro 5 and Euro 6 engines in combination with diesel fuel with a low sulphur content. This engine oil is also suitable for application in engines with or without particle filters and exhaust catalysts. This motor oil is one of the group "low SAPS" lubricants.

#### **Performance level**

ACEA E6, E7

API CI-4

Cummins CES 20076/20077

DAF Long Drain

Deutz DQC IV-10 LA

JASO DH-2

Mack EO-N

MAN M 3477/M 3271-1

MB 228.51

MTU Type 3.1

Renault VI RXD/RGD/RLD-2

Volvo VDS-3

#### **Typicals**

Density at 15 °C, kg/l	0,863
Viscosity -25 °C, mPa.s	5730
Viscosity 40 °C, mm <sup>2</sup> /s	87,00
Viscosity 100 °C, mm <sup>2</sup> /s	13,40
Viscosity Index	155
Flash Point COC, °C	222
Pour Point, °C	-36
Total Base Number, mgKOH/g	10,0

This Heavy Duty engine oil is formulated with unique low SAPS high performance additives in combination with special selected base oils. This multi grade engine oil fulfills the latest requirements of OEM's for use in high speed four stroke diesel engines of the latest models and has the following properties:

- meets or exceeds the requirement of the nowadays low emission standards
- an excellent cold start properties
- a very good shear stability
- an improved oxidation resistance
- a very strong dispersion, therefore the deposits and sludge are restricted to a minimum
- excellent properties against wear, corrosion and foam
- a lower oil consumption

The product may be claimed only to meet the mentioned performance levels.

### **Application**

This Heavy Duty engine oil is suitable for use in both on-road and off-highway applications. This engine oil contributes to low exhaust emission and particle levels, which highly benefits the lifetime of emission control systems. By meeting the requirements of OEM's in Europe and North America this product has a wide choice of application possibilities. This product can be applied in Euro 5 and Euro 6 engines with SCR exhaust gas system and in Euro 3 and Euro 4 engines when indicated by the manufacturer.

### **Performance level**

<b>Performance level</b>	<b>Typicals</b>	
ACEA E9	Density at 15 °C, kg/l	0,867
API CK-4/SN	Viscosity -20 °C, mPa.s	4180
Cat ECF-3	Viscosity 40 °C, mm <sup>2</sup> /s	93,10
Cummins CES 20086	Viscosity 100 °C, mm <sup>2</sup> /s	13,60
Detroit Diesel 93K222	Viscosity Index	148
Deutz DQC III-18 LA	Flash Point COC, °C	236
Ford WSS M2C171-F1	Pour Point, °C	-36
Mack EOS-4.5	Total Base Number, mgKOH/g	8,1
MAN M 3775	Sulphate Ash, %	0,90
MB 228.31		
MTU Type 2.1		
Renault VI RLD-3		
Volvo VDS-4.5		





**SOLUTION OIL**<sup>®</sup>  
**UNIFLEET ULTRA 15W40**

A gasoline- and diesel engine oil, formulated with solvent refined base oils and a well-balanced choice of additives. This engine oil has the following properties:

- a very powerful detergency prevents deposits in the engine
- a very strong dispersion that prevents from precipitation and sludge
- a powerful activity against corrosion and foam
- a high and stable viscosity index
- a powerful activity against wear resulting in strongly reduced wear of piston rings and cylinderliners

The product may be claimed only to meet the mentioned performance levels.

### **Application**

This engine lubricant is applicable to gasoline and diesel engines (normally- or turbo-aspirated) even under the toughest operation conditions and all the year round. This engine oil has a special additive system and may therefore be used, when fuels with relatively high sulphur contents are involved. This product is suitable for application in Euro 4 and Euro 5 engines.

### **Performance level**

ACEA E7  
API CI-4/SL  
Cat ECF-1-a/ECF-2  
Cummins CES 20077/20078  
Detroit Diesel 93K215  
Deutz DQC III-10  
Global DHD-1  
JASO DH-1  
Mack EO-N/EO-M Plus  
MAN M 3275-1  
MB 228.3  
MTU Type 2  
Renault VI RLD

### **Typicals**

Density at 15 °C, kg/l	0,875
Viscosity -20 °C, mPa.s	5060
Viscosity 40 °C, mm <sup>2</sup> /s	106,00
Viscosity 100 °C, mm <sup>2</sup> /s	14,60
Viscosity Index	142
Flash Point COC, °C	228
Pour Point, °C	-36
Total Base Number, mgKOH/g	11,1
Sulphate Ash, %	1,43