

**FANFARO<sup>®</sup>**



**AUTOMOTIVE OILS,  
LUBRICANTS & FLUIDS**



The FANFARO GmbH, associated with SCT Lubricants, is one of the market's leading lubricant producers, offering a full range of standard and special lubricants at competitive prices. A modern and unique packaging design, short delivery time and approved OEM specification as well as EU quality complete the picture. With a production capacity of 400 tons of lubricants per day in our own factory we have ensured the success of our clients in 92 countries on 5 continents since 1993.

The company was founded to meet the requirements of the European, Euro-Asian as well as American automotive industry with a special focus on the latest developments in engine technology. Our production site complies with the latest international standards and the international quality system according to ISO 9001, thus ensuring the high quality of our products.

We co-operate with the world's best distributors of raw materials used during the production of our lubricants for excellent product features and an optimum price quality ratio.

# ENGINE OILS FOR CARS AND TRANSPORTERS



## ESX

### Fully Synthetic Engine Oil

#### Description:

Fully synthetic multigrade power-saving engine oil for all types of present-day engines. Thanks to its unique bi-synthetic basis it provides instant lubrication at extremely low temperatures. It prevents start-up wear-out and provides extreme cleanliness of the engine components. It guarantees maximum wear-out prevention at all engine functioning stages.

#### Product Characteristics:

Test	Method	Unit	Result
SAE-class			5W-30
Density at 15°C	D 1298	kg/m <sup>3</sup>	842
Viscosity at 40°C	D 445	CSt	68,20
Viscosity at 100°C	D 445	CSt	12,55
Viscosity at -35°C	D 5293	CP	6200
Viscosity index	D 2270		185
Flash point COC	D 92	°C	224
Pour point	D 97	°C	-45
TBN	D 2896	gKOH/kg	10,16



#### Meets the requirements/specifications:

SAE 0W-40, API SN/CF, ACEA A3/B3/B4, MB 229.3.

#### Volume/weight:/Art.-Nr.:

1L (FF6711-1); 4L (FF6711-4);  
10L (FF6711-10); 20L (FF6711-20);  
60L (FF6711-60); 208L (FF6711-DR);  
1000L (FF6711-IBC)

## JPX

### Fully Synthetic Engine Oil

#### Description:

Modern, premium class engine oil for the lubrication of all four-stroke engines of Japanese, Korean and American light vehicles, minivans and SUVs. Ideal for up-to-date petrol engines with direct injection, turbochargers and variable valve timing (VTEC, VVT-i, VTC, CVVT, VVL, VVTL-i, MIVEC etc.). The combination of unconventional base oils together with the latest additive technology guarantees an engine oil that provides exceptional protection against wear and keeps the engine clean while ensuring fast and reliable oil penetration. Specially recommended for Honda, Acura, Mazda, Mitsubishi, Ford, Chrysler, Hyundai, Kia, Isuzu, Suzuki, Toyota, Nissan, Subaru and GM.

#### Product Characteristics:

Test	Method	Unit	Result
SAE-class			5W-20
Density at 15°C	D 1298	kg/m <sup>3</sup>	852
Viscosity at 40°C	D 445	CSt	44,92
Viscosity at 100°C	D 445	CSt	8,27
Viscosity at -30°C	D 5293	CP	4364
Viscosity index	D 2270		162
Flash point COC	D 92	°C	224
Pour point	D 97	°C	-45
TBN	D 2896	gKOH/kg	10,56



#### Meets the requirements/specifications:

SAE 5W-20, API SN, ILSAC GF-5, GM dexos1, CHRYSLER, FORD WSS-M2C945-A/B, HONDA, ACURA, MAZDA, MITSUBISHI, SUBARU, TOYOTA, NISSAN, ISUZU, SUZUKI, HYUNDAI, KIA MOTORS.

#### Volume/weight:/Art.-Nr.:

1L (FF6715-1); 4L (FF6715-4);  
5L (FF6715-5); 10L (FF6715-10);  
20L (FF6715-20); 60L (FF6715-60);  
208L (FF6715-DR); 1000L (FF6715-IBC)

## LSX

### Fully Synthetic Engine Oil

#### Description:

Special fully synthetic engine oil that meets the requirements of all leading car manufacturers. Avoid wear on valve train in order to preserve engine performance. Suitable for any types of fuel: leaded, unleaded gasoline and diesel fuel.



#### Meets the requirements/specifications:

SAE 5W-30, API SN/CF, ACEA C3, A3/B4, VW 504.00/507.00, MB 229.51, BMW LL-04, PORSCHE C30.

#### Product Characteristics:

Test	Method	Unit	Result
SAE-class			5W-30
Density at 15°C	D 1298	kg/m <sup>3</sup>	850
Viscosity at 40°C	D 445	CSt	64,40
Viscosity at 100°C	D 445	CSt	11,30
Viscosity at -30°C	D 5293	CP	4820
Viscosity index	D 2270		170
Flash point COC	D 92	°C	224
Pour point	D 97	°C	-48
TBN	D 2896	gKOH/kg	6,50

#### Volume/weight:/Art.-Nr.:

1L (FF6701-1); 4L (FF6701-4);  
 5L (FF6701-5); 10L (FF6701-10);  
 20L (FF6701-20); 60L (FF6701-60);  
 208L (FF6701-DR); 1000L (FF6701-IBC)

## VDX

### Fully Synthetic Engine Oil

#### Description:

A fully synthetic engine oil that is designed to be used in petrol and diesel engine vehicles, which are equipped with turbochargers or not, equipped with particulate filters or not (DPF, FAP), and that have other exhaust emission cleaning systems. The contemporary additive set ensures maximum protection against wear and the extraordinary cleanliness of the engine separate parts under hard operation conditions. The completely synthetic basis guarantees an extraordinary stability of all engine oil characteristics, even if the service intervals are increased (up to 40.000 km). May be used in vehicles equipped with liquid gas and natural gas drives (LPG/CNG).



#### Meets the requirements/specifications:

SAE 5W-30, API SN/CF, ACEA C3, VW 505.01/505.00/502.00, BMW LL-04, MB 229.51, GM dexos2.

#### Product Characteristics:

Test	Method	Unit	Result
SAE-class			5W-30
Density at 15°C	D 1298	kg/m <sup>3</sup>	849
Viscosity at 40°C	D 445	CSt	70,61
Viscosity at 100°C	D 445	CSt	11,78
Viscosity at -30°C	D 5293	CP	6580
Viscosity index	D 2270		163
Flash point COC	D 92	°C	224
Pour point	D 97	°C	-35
TBN	D 2896	gKOH/kg	7,40

#### Volume/weight:/Art.-Nr.:

1L (FF6707-1); 5L (FF6707-5);  
 10L (FF6707-10); 20L (FF6707-20);  
 60L (FF6707-60); 208L (FF6707-DR);  
 1000L (FF6707-IBC)

## LSX JP

### Synthetic Engine Oil

#### Description:

A premium class synthetic engine oil for the lubrication of all 4-stroke engines of modern light vehicles, minivans and SUV's. Optimum for up-to-date diesel and gasoline engines with multi-valve technology and turbocharging (DOHC, VVT-i, VTC, CVVT, VTEC, VVL, VVTL-i, MIVEC etc.). The combination of unconventional base oils together with the latest additive technology guarantees a motor oil that provides exceptional protection against wear and keeps the engine clean while ensuring fast oil penetration of the engine.



#### Meets the requirements/specifications:

SAE 5W-30, API SN/CF, ACEA A3/B4, ILSAC GF-5, GM dexos1.

#### Product Characteristics:

Test	Method	Unit	Result
SAE-class			5W-30
Density at 15°C	D 1298	kg/m <sup>3</sup>	857
Viscosity at 40°C	D 445	CSt	67,82
Viscosity at 100°C	D 445	CSt	11,45
Viscosity at -30°C	D 5293	CP	5807
Viscosity index	D 2270		164
Flash point COC	D 92	°C	224
Pour point	D 97	°C	-44
TBN	D 2896	gKOH/kg	9,60

#### Volume/weight:/Art.-Nr.:

1L (FF6703-1); 4L (FF6703-4);  
 10L (FF6703-10); 20L (FF6703-20);  
 60L (FF6703-60); 208L (FF6703-DR);  
 1000L (FF6703-IBC)

## PDX

### Synthetic Engine Oil



#### Description:

State of the art synthetic engine oil for the latest petrol and diesel engines with pumped-jet injection systems and with exhaust emission standards Euro 4 or Euro 5. Specially developed for engines with turbocharger, direct injection, exhaust treatment and for modern engines which require oils with the ACEA C3 specification. Provides excellent cold starting of the engine even at extremely low temperatures. Can be used for engines powered with natural gas (CNG) and liquefied petroleum gas (LPG).

#### Meets the requirements/specifications:

SAE 5W-40, API SN/SM/CF, ACEA C3, ACEA A3/B4, MB 229.31/226.5, VW 502.00/505.01, BMW Longlife-04, PORSCHE A40, FORD WSS-M2C917A, GM dexos2, RENAULT RN0700/RN0710.

#### Product Characteristics:

Test	Method	Unit	Result
SAE-class			5W-40
Density at 15°C	D 1298	kg/m <sup>3</sup>	850
Viscosity at 40°C	D 445	CSt	80,69
Viscosity at 100°C	D 445	CSt	13,58
Viscosity at -30°C	D 5293	CP	5782
Viscosity index	D 2270		172
Flash point COC	D 92	°C	226
Pour point	D 97	°C	-42
TBN	D 2896	gKOH/kg	7,58

#### Volume/weight:/Art.-Nr.:

1L (FF6705-1); 4L (FF6705-4);  
5L (FF6705-5); 10L (FF6705-10);  
20L (FF6705-20); 60L (FF6705-60);  
208L (FF6705-DR); 1000L (FF6705-IBC)

## TSN

### Synthetic Engine Oil



#### Description:

Formulated from highest synthetic base stocks with the most modern detergent, dispersant, antioxidant, antiwear agent, viscosity index improver and antifoam additives. Base stocks and unique additive technologies combine superior high temperature performance with excellent start-up reliability, perfect lubricating properties and reduce fuel consumption.

#### Meets the requirements/specifications:

SAE 10W-40, API SN/SM/CF, ACEA A3/B4, VW 502.00/505.00, MB 229.1, RENAULT RN0700.

#### Product Characteristics:

Test	Method	Unit	Result
SAE-class			10W-40
Density at 15°C	D 1298	kg/m <sup>3</sup>	866
Viscosity at 40°C	D 445	CSt	108,0
Viscosity at 100°C	D 445	CSt	15,85
Viscosity at -25°C	D 5293	CP	6650
Viscosity index	D 2270		157
Flash point COC	D 92	°C	225
Pour point	D 97	°C	-42
TBN	D 2896	gKOH/kg	10,02

#### Volume/weight:/Art.-Nr.:

1L (FF6704-1); 4L (FF6704-4);  
5L (FF6704-5); 10L (FF6704-10);  
20L (FF6704-20); 60L (FF6704-60);  
208L (FF6704-DR); 1000L (FF6704-IBC)

## VSX

### Synthetic Engine Oil



#### Description:

A modern universal synthetic fuel economy motor oil formulation, produced with high quality synthetic base oils and a well balanced choice of advanced additives to obtain the safe lubrication film even at very high temperatures, very good detergency and dispersion and strong protection against wear, corrosion and foaming. Recommended for use in all petrol and diesel engines, with or without turbo charging.

#### Meets the requirements/specifications:

SAE 5W-40, API SN/SM/CF, ACEA A3/B4, MB 229.3/226.5, BMW Longlife-01, VW 501.01/502.00/505.00, OPEL GM LL-A/B-025, PORSCHE A40, RENAULT RN 0710/0700.

#### Product Characteristics:

Test	Method	Unit	Result
SAE-class			5W-40
Density at 15°C	D 1298	kg/m <sup>3</sup>	856
Viscosity at 40°C	D 445	CSt	79,10
Viscosity at 100°C	D 445	CSt	13,32
Viscosity at -30°C	D 5293	CP	6240
Viscosity index	D 2270		171
Flash point COC	D 92	°C	236
Pour point	D 97	°C	-42
TBN	D 2896	gKOH/kg	10,0

#### Volume/weight:/Art.-Nr.:

1L (FF6702-1); 4L (FF6702-4);  
5L (FF6702-5); 10L (FF6702-10);  
20L (FF6702-20); 60L (FF6702-60);  
208L (FF6702-DR); 1000L (FF6702-IBC)

## GAZOLIN

### Natural Gas Engine Oil



#### Description:

An extreme stable four season engine oil for passenger cars and vans, working on compressed natural gas (CNG) or on liquefied petroleum gas (LPG) with or without turbo charger. Basic oils, made on the basis of synthesis technology and special additives, provide engine with the highest protection from sediments under extreme working conditions. This oil increases safety in gas-fuelled automobiles.

#### Meets the requirements/specifications:

SAE 10W-40, API SG/CD.

#### Product Characteristics:

Test	Method	Unit	Result
SAE-class			10W-40
Density at 15°C	D 1298	kg/m <sup>3</sup>	876
Viscosity at 40°C	D 445	CSt	97,02
Viscosity at 100°C	D 445	CSt	13,90
Viscosity at -25°C	D 5293	CP	6920
Viscosity index	D 2270		146
Flash point COC	D 92	°C	222
Pour point	D 97	°C	-35
TBN	D 2896	gKOH/kg	5,56

#### Volume/weight./Art.-Nr.:

1L (FF6504-1); 4L (FF6504-4);  
 5L (FF6504-5); 10L (FF6504-10);  
 20L (FF6504-20); 60L (FF6504-60);  
 208L (FF6504-DR); 1000L (FF6504-IBC)

## TDI

### Semi-synthetic Engine Oil



#### Description:

An all year round semi-synthetic engine oil designed for diesel engines in passenger cars that are equipped with turbochargers. It ensures a reliable wear protection, an extraordinary cleanliness of the engine separate parts and an easy cold start. May be used in petrol engines.

#### Meets the requirements/specifications:

SAE 10W-40, API CH-4/SL, ACEA B3/A3, VW 505.00/501.01.

#### Product Characteristics:

Test	Method	Unit	Result
SAE-class			10W-30
Density at 15°C	D 1298	kg/m <sup>3</sup>	872
Viscosity at 40°C	D 445	CSt	95,36
Viscosity at 100°C	D 445	CSt	13,84
Viscosity at -25°C	D 5293	CP	6980
Viscosity index	D 2270		148
Flash point COC	D 92	°C	225
Pour point	D 97	°C	-35
TBN	D 2896	gKOH/kg	8,41

#### Volume/weight./Art.-Nr.:

1L (FF6503-1); 5L (FF6503-5);  
 10L (FF6503-10); 20L (FF6503-20);  
 60L (FF6503-60); 208L (FF6503-DR);  
 1000L (FF6503-IBC)

## TSE

### Semi-synthetic Engine Oil



#### Description:

A semi-synthetic engine oil of the latest generation, for the lubrication of all 4-stroke high performance gasoline and diesel engines with or without turbo. Specially designed with use of new unique anti-wear technology. Provides very strong resistance against wear and ageing, excellent fluidity at low temperature and easy start at cold weather.

#### Meets the requirements/specifications:

SAE 5W-30, API SL/CF, ACEA A3/B3, VW 502.00/505.00, MB 229.1.

#### Product Characteristics:

Test	Method	Unit	Result
SAE-class			5W-30
Density at 15°C	D 1298	kg/m <sup>3</sup>	852
Viscosity at 40°C	D 445	CSt	66,37
Viscosity at 100°C	D 445	CSt	11,18
Viscosity at -30°C	D 5293	CP	5240
Viscosity index	D 2270		161
Flash point COC	D 92	°C	224
Pour point	D 97	°C	-42
TBN	D 2896	gKOH/kg	8,60

#### Volume/weight./Art.-Nr.:

1L (FF6501-1); 4L (FF6501-4);  
 5L (FF6501-5); 10L (FF6501-10);  
 20L (FF6501-20); 60L (FF6501-60);  
 208L (FF6501-DR); 1000L (FF6501-IBC)

## TSX

### Semi-synthetic Engine Oil



#### Description:

Formulated from highest mineral and synthetic base stocks with the most modern detergent, dispersant, antioxidant, antiwear agent, viscosity index improver and antifoam additives. Base stocks and unique additive technologies combine excellent detergent and dispersant properties and very good resistance against oxidation, perfect lubricating properties and reduce fuel consumption.

#### Meets the requirements/specifications:

SAE 10W-40, API SL/CF,  
MB 229.1, VW 501.01/505.00.

#### Product Characteristics:

Test	Method	Unit	Result
SAE-class			10W-30
Density at 15°C	D 1298	kg/m <sup>3</sup>	878
Viscosity at 40°C	D 445	CSt	98,20
Viscosity at 100°C	D 445	CSt	14,40
Viscosity at -25°C	D 5293	CP	6250
Viscosity index	D 2270		151
Flash point COC	D 92	°C	222
Pour point	D 97	°C	-35
TBN	D 2896	gKOH/kg	7,04

#### Volume/weight:/Art.-Nr.:

**1L** (FF6502-1); **4L** (FF6502-4);  
**5L** (FF6502-5); **10L** (FF6502-10);  
**20L** (FF6502-20); **60L** (FF6502-60);  
**208L** (FF6502-DR); **1000L** (FF6502-IBC)

## DSX

### Universal Engine Oil



#### Description:

Produced on basis of quality mineral base oils and upgrade additive packages to provide high corrosion and oxidation resistance and excellent serviceability in a wide range of temperatures. Effectively reduces the carbon formation and polishing of cylinders. Possesses strong anti-wear properties. FANFARO DSX - ideal oil for diesel engines of trailers, cars and microbuses with or without turbo. Application in gasoline engines is possible.

#### Meets the requirements/specifications:

SAE 15W-40, API CG-4/SL, ACEA E3/B3/A3,  
VW 505.00/501.00, MB 228.3/229.1, VOLVO VDS, MAN 3275,  
MTU 2.0, RENAULT RD/RGD.

#### Product Characteristics:

Test	Method	Unit	Result
SAE-class			15W-40
Density at 15°C	D 1298	kg/m <sup>3</sup>	888
Viscosity at 40°C	D 445	CSt	102,0
Viscosity at 100°C	D 445	CSt	14,0
Viscosity at -20°C	D 5293	CP	6950
Viscosity index	D 2270		139
Flash point COC	D 92	°C	224
Pour point	D 97	°C	-35
TBN	D 2896	gKOH/kg	8,55

#### Volume/weight:/Art.-Nr.:

**1L** (FF6402-1); **5L** (FF6402-5);  
**10L** (FF6402-10); **20L** (FF6402-20);  
**60L** (FF6402-60); **208L** (FF6402-DR);  
**1000L** (FF6402-IBC)

## GAZOLIN Formula GTL

### Universal Engine Oil



#### Description:

An extreme stable four season engine oil for passenger cars and vans, working on compressed natural gas (CNG) or on liquefied petroleum gas (LPG) with or without turbo charger. Basic oils, made on the basis of synthesis technology and special additives, provide engine with the highest protection from sediments under extreme working conditions. This oil increases safety in gas-fuelled automobiles.

#### Meets the requirements/specifications:

SAE 15W-40, API SG/CD.

#### Product Characteristics:

Test	Method	Unit	Result
SAE-class			15W-40
Density at 15°C	D 1298	kg/m <sup>3</sup>	875
Viscosity at 40°C	D 445	CSt	107,92
Viscosity at 100°C	D 445	CSt	14,11
Viscosity at -20°C	D 5293	CP	6520
Viscosity index	D 2270		132
Flash point COC	D 92	°C	224
Pour point	D 97	°C	-36
TBN	D 2896	gKOH/kg	4,88

#### Volume/weight:/Art.-Nr.:

**5L** (FF6404-5); **20L** (FF6404-20);  
**60L** (FF6404-60); **208L** (FF6404-DR);  
**1000L** (FF6404-IBC)

## GSX

### Universal Engine Oil



#### Description:

A universal all year round engine oil that is manufactured on the basis of high-quality mineral oils with the addition of a multifunctional additive set. This set ensures optimal viscosity-temperature and lubricant properties. Designed for use in petrol and diesel engines of passenger cars.

#### Meets the requirements/specifications:

SAE 15W-40, API SG/CD.

#### Product Characteristics:

Test	Method	Unit	Result
SAE-class			15W-40
Density at 15°C	D 1298	kg/m <sup>3</sup>	887
Viscosity at 40°C	D 445	CSt	103,80
Viscosity at 100°C	D 445	CSt	13,88
Viscosity at -20°C	D 5293	CP	6340
Viscosity index	D 2270		134
Flash point COC	D 92	°C	224
Pour point	D 97	°C	-35
TBN	D 2896	gKOH/kg	4,88

#### Volume/weight:/Art.-Nr.:

1L (FF6401-1); 4L (FF6401-4);  
 5L (FF6401-5); 10L (FF6401-10);  
 20L (FF6401-20); 60L (FF6401-60);  
 208L (FF6401-DR); 1000L (FF6401-IBC)

## GSX 50

### Universal Engine Oil



#### Description:

An engine oil based on high-quality base oils which was specially developed in order to meet the requirements of the lubrication of modern engines. Protects against wear and ensures safe engine lubrication thanks to a high content of additives. It is an all year round engine oil that is recommended for lubrication of passenger car petrol and diesel engines and light trucks with or without turbocharger. Please follow the vehicle manufacturer's instructions regarding oil change intervals.

#### Meets the requirements/specifications:

SAE 20W-50, API SL/CF.

#### Product Characteristics:

Test	Method	Unit	Result
SAE-class			20W-50
Density at 15°C	D 1298	kg/m <sup>3</sup>	888
Viscosity at 40°C	D 445	CSt	174,20
Viscosity at 100°C	D 445	CSt	18,18
Viscosity at -15°C	D 5293	CP	8820
Viscosity index	D 2270		120
Flash point COC	D 92	°C	224
Pour point	D 97	°C	-28
TBN	D 2896	gKOH/kg	6,20

#### Volume/weight:/Art.-Nr.:

1L (FF6403-1); 4L (FF6403-4);  
 5L (FF6403-5); 10L (FF6403-10);  
 20L (FF6403-20); 60L (FF6403-60);  
 208L (FF6403-DR); 1000L (FF6403-IBC)





**Volume/weight:/Art.-Nr.:**

1L (FF8602-1); 4L (FF8602-4ME);  
 10L (FF8602-10); 20L (FF8602-20);  
 60L (FF8602-60); 208L (FF8602-DR);  
 1000L (FF8602-IBC)

## ATF

### Universal Full Synthetic Automatic Transmission Fluid

**Description:**

Universal Full Synthetic is an oil with a high viscosity index for automatic transmissions. It can be used in automatic transmissions, torque converters, power steering and hydraulic circuits, for which the constructors prescribe a product, which meets the General Motors ATF Type Dexron III or Dexron II-E and Ford Mercon requirements.

**Meets the requirements/specifications:**

AISIN WARNER JWS 3309  
 JASO M315 Type 1A  
 JATCO ATF  
 JATCO 3100 PL085  
 TOYOTA ATF Type T/T-II/T-III/T-IV/ATF WS/JWS 3324  
 NISSAN/INFINITI MATIC D/J/K  
 NISSAN/TEXACO N402 (JATCO FWD)  
 MITSUBISHI DIAMOND SP-II/SP-III  
 MAZDA ATF-M III, ATF-MV  
 DAIHATSU ALUMIX ATF MULTI  
 HONDA ATF-Z1 (not for CVT) / ATF DW-1  
 SUZUKI 3314, 3317, 2384K  
 SUZUKI ATF OIL / ATF OIL SPECIAL  
 SUBARU ATF 5, ATF-HP  
 SSANGYONG DSIH 6P805  
 IDEMITSU K17-Jaguar X Type 2001-2005  
 MOPAR AS68RC  
 HYUNDAI/KIA SP-II/SP-III  
 GM DEXRON® II/IIID/IIIE/IIIF/IIIG/IIIH/VI  
 FORD MERCON® V/SP/LV/Type-F  
 CHRYSLER ATF +3/+4  
 VW/AUDI G 052 025-A2/G 052 162-A1/G 052 990-A1/A2/G 055 025-A1/A2  
 BMW 7045E (3 Series)/ETL-8072B (5 Series)/LA2634, LT71141 (ZF 5 Speed)  
 MERCEDES-BENZ 236.1/2/3/5/6/7/9/10/11  
 PORSCHE JWS 3309  
 MAN 339F/V1/V2/Z1/Z2  
 VOLVO 97340/97341  
 VOITH 55.6335.XX (G607)  
 ALLISON C-3/C-4  
 ZF TE-ML 03D/04D/11B/14A/14B/16L/17

**Product Characteristics:**

Test	Method	Unit	Result
Density at 15°C	D 1298	kg/m³	865
Viscosity at 40°C	D 445	CSt	36,80
Viscosity at 100°C	D 445	CSt	7,32
Viscosity index	D 2270		168
Flash point COC	D 92	°C	216
Pour point	D 97	°C	-46

## ATF III

### Automatic Transmission Fluid

#### Description:

An oil manufactured with highly refined base oils and performance additives to satisfy automotive manufacturer's ATF specifications where Dexron III or Ford Mercon fluids are recommended. Fanfaro ATF III is formulated from special, high-quality base oils combined with viscosity index improvers, antioxidants, anti-wear agents, detergents and defoamers. Its responsive low-temperature fluidity is beneficial in both electronic and hydraulic controlled transmissions and transaxles.

#### Meets the requirements/specifications:

GM Dexron III H/G/F, FORD MERCON, FORD M2C138-CJ/M2C166-H, ZF TE-ML 09/11/14, MB 236.1, VOITH G.607, ALLISON C4/TES 389, CATERPILLAR TO-2, PSF applications.

#### Product Characteristics:

Test	Method	Unit	Result
Density at 15°C	D 1298	kg/m <sup>3</sup>	854
Viscosity at 40°C	D 445	CSt	33,20
Viscosity at 100°C	D 445	CSt	7,02
Viscosity index	D 2270		180
Flash point COC	D 92	°C	216
Pour point	D 97	°C	-48

#### Volume/weight./Art.-Nr.:

1L (FF8603-1); 4L (FF8603-4);  
 10L (FF8603-10); 20L (FF8603-20);  
 60L (FF8603-60); 208L (FF8603-DR);  
 1000L (FF8603-IBC)



## ATF II D

### Automatic Transmission Fluid

#### Description:

An oil manufactured with highly refined base oils and performance additives to satisfy automotive manufacturer's ATF specifications where Dexron II D fluids are recommended. It can be used in automatic transmissions, torque converters, power steering and hydraulic circuits.

#### Meets the requirements/specifications:

GM Dexron II D, MAN 339 V1/Z1, MB 236.5/236.7, VOITH G607, RENK, ZF TE-ML 03D/04D/11A/14A/17C, ALLISON C4, CATERPILLAR TO-2.

#### Product Characteristics:

Test	Method	Unit	Result
Density at 15°C	D 1298	kg/m <sup>3</sup>	870
Viscosity at 40°C	D 445	CSt	34,94
Viscosity at 100°C	D 445	CSt	6,84
Viscosity index	D 2270		159
Flash point COC	D 92	°C	220
Pour point	D 97	°C	-46

#### Volume/weight./Art.-Nr.:

1L (FF8604-1); 4L (FF8604-4);  
 10L (FF8604-10); 20L (FF8604-20);  
 60L (FF8604-60); 208L (FF8604-DR);  
 1000L (FF8604-IBC)



## CVT

### Fully Synthetic CVT Fluid

#### Description:

Blended from high-performance base oils and carefully selected additives, including friction modifiers, detergent-dispersants, oxidation inhibitors, viscosity index improvers, corrosion inhibitors, and defoaming agents. It's a well-balanced fluid specially designed for automobiles with steel-belt CVTs.

#### Meets the requirements/specifications:

TOYOTA / DAIHATSU TC, SUZUKI TC / NS-2, HYUNDAI/KIA CVT, MITSUBISHI CVTF-J1 & J, NISSAN / SUBARU / DODGE NS-2, FORD CVT23, MB 236.20, VAG TL 52 180, G 052 180 A1/A2/A6.

#### Product Characteristics:

Test	Method	Unit	Result
Density at 15°C	D 1298	kg/m <sup>3</sup>	860
Viscosity at 40°C	D 445	CSt	37,28
Viscosity at 100°C	D 445	CSt	7,01
Viscosity index	D 2270		152
Flash point COC	D 92	°C	210
Pour point	D 97	°C	-45

#### Volume/weight./Art.-Nr.:

1L (FF8601-1); 10L (FF8601-10);  
 20L (FF8601-20); 60L (FF8601-60);  
 208L (FF8601-DR); 1000L (FF8601-IBC)





## LSD

### Universal Hypoid Gear Oil

#### Description:

A high quality transmission oil with mineral basis for mechanical transmission aggregates of trucks and passenger vehicles that provides safe functioning of self-locking gears with limited slip, main gears, reducing gears, driving axles and other loaded transmission control groups. Has perfect anti-tearing and anti wear-out properties. Improved thermal and oxidation stability provides perfect cleanness of the mechanisms and prolonged oil cycle life before change.

#### Product Characteristics:

Test	Method	Unit	Result
Density at 15°C	D 1298	kg/m <sup>3</sup>	894
Viscosity at 40°C	D 445	CSt	328,0
Viscosity at 100°C	D 445	CSt	25,40
Viscosity index	D 2270		100
Flash point COC	D 92	°C	228
Pour point	D 97	°C	-15



#### Meets the requirements/specifications:

SAE 85W-140, API GL-5 LS (Limited Slip), MIL-L 2105 D.

#### Volume/weight:/Art.-Nr.:

1L (FF8708-1); 10L (FF8708-10);  
 20L (FF8708-20); 60L (FF8708-60);  
 208L (FF8708-DR); 1000L (FF8708-IBC)

## MAX 4

### Universal Gear Oil

#### Description:

The all year round transmission oil is manufactured on the basis of deep-cleaned basic mineral oils with the addition of highly effective additive sets that ensure a reliable operation of the transmission. The oil is designed for use in axles with spiral-conical transmissions that are operated at moderate and high speed and demand or in axles with spiral bevel gears that are operated at moderate speed and demand.

#### Product Characteristics:

Test	Method	Unit	Result
SAE-class			80W-90
Density at 15°C	D 1298	kg/m <sup>3</sup>	898
Viscosity at 40°C	D 445	CSt	164,93
Viscosity at 100°C	D 445	CSt	16,32
Viscosity index	D 2270		103
Flash point COC	D 92	°C	216
Pour point	D 97	°C	-32



#### Meets the requirements/specifications:

SAE 80W-90, API GL4, MIL-L 2105.

#### Volume/weight:/Art.-Nr.:

1L (FF8701-1); 10L (FF8701-10);  
 20L (FF8701-20); 60L (FF8701-60);  
 208L (FF8701-DR); 1000L (FF8701-IBC)

## MAX 4+

### Fully Synthetic Gear Oil

#### Description:

A fully synthetic transmission oil for gear boxes with integrated differentials. Longer gear box and lubricant life. Exceeds largely the constructor's requirements.

#### Meets the requirements/specifications:

SAE 75W-90, API GL4+, MIL-L 2105, VW 501.50.

#### Product Characteristics:

Test	Method	Unit	Result
SAE-class			75W-90
Density at 15°C	D 1298	kg/m <sup>3</sup>	868
Viscosity at 40°C	D 445	CSt	87,30
Viscosity at 100°C	D 445	CSt	15,30
Viscosity index	D 2270		186
Pour point	D 97	°C	-36

#### Volume/weight./Art.-Nr.:

1L (FF8702-1); 10L (FF8702-10);  
20L (FF8702-20); 60L (FF8702-60);  
208L (FF8702-DR); 1000L (FF8702-IBC)



## MAX 5

### High Performance Gear Oil

#### Description:

A high performance gear oil which is manufactured from carefully selected base oils and special additives. Meets the manufacture's recommendation for most manual transmissions, reducers and differentials where an API GL 5 gear oil is recommended. It's specially developed to provide an easy work of transmission under severe conditions.

#### Meets the requirements/specifications:

SAE 80W-90, API GL 5 LS (Limited Slip), MIL-L 2105 D.

#### Product Characteristics:

Test	Method	Unit	Result
SAE-class			80W-90
Density at 15°C	D 1298	kg/m <sup>3</sup>	900
Viscosity at 40°C	D 445	CSt	192,20
Viscosity at 100°C	D 445	CSt	17,98
Viscosity index	D 2270		102
Flash point COC	D 92	°C	210
Pour point	D 97	°C	-32

#### Volume/weight./Art.-Nr.:

1L (FF8703-1); 4L (FF8703-4);  
10L (FF8703-10); 20L (FF8703-20);  
60L (FF8703-60); 208L (FF8703-DR);  
1000L (FF8703-IBC)



## MAX 5+

### High Performance Gear Oil

#### Description:

A high performance gear oil which is manufactured from carefully selected base oils and special additives. Meets the manufacture's recommendation for most manual transmissions, reducers and differentials. It's specially developed to provide an easy work of transmission under severe conditions.

#### Meets the requirements/specifications:

SAE 80W-90, API GL-4 / GL-5, MIL-L 2105 D.

#### Product Characteristics:

Test	Method	Unit	Result
SAE-class			80W-90
Density at 15°C	D 1298	kg/m <sup>3</sup>	886
Viscosity at 40°C	D 445	CSt	192,20
Viscosity at 100°C	D 445	CSt	17,98
Viscosity index	D 2270		102
Flash point COC	D 92	°C	210
Pour point	D 97	°C	-32

#### Volume/weight./Art.-Nr.:

1L (FF8705-1); 10L (FF8705-10);  
20L (FF8705-20); 60L (FF8705-60);  
208L (FF8705-DR); 1000L (FF8705-IBC)



## MAX 6

### Synthetic Gear Oil

#### Description:

A synthetic transmission oil with „extreme pressure“ properties, specially composed in order to prevent corrosion on copper alloys. It's applied in up-to-date gear boxes and some rear axles, specially where gear shift problems occur when using thicker oils.

#### Product Characteristics:

Test	Method	Unit	Result
SAE-class			75W-90
Density at 15°C	D 1298	kg/m <sup>3</sup>	886
Viscosity at 40°C	D 445	CSt	90,27
Viscosity at 100°C	D 445	CSt	15,42
Viscosity index	D 2270		181
Flash point COC	D 92	°C	210
Pour point	D 97	°C	-41



#### Meets the requirements/specifications:

SAE 75W-90, API GL 5,  
MAN 342 Type M1/M2/M3, MACK GO-J / GO-J Plus,  
SCANIA STO 1:0.

#### Volume/weight:/Art.-Nr.:

**1L** (FF8706-1); **10L** (FF8706-10);  
**20L** (FF8706-20); **60L** (FF8706-60);  
**208L** (FF8706-DR); **1000L** (FF8706-IBC)

## MAX 6+

### Fully Synthetic Gear Oil

#### Description:

A fully synthetic transmission oil for all differentials, including those with „limited slip“. Ensures excellent anti-wear protection. Specially designed for high power vehicles, like sports cars and 4x4 utility vehicles.

#### Product Characteristics:

Test	Method	Unit	Result
SAE-class			75W-140
Density at 15°C	D 1298	kg/m <sup>3</sup>	896
Viscosity at 40°C	D 445	CSt	246,62
Viscosity at 100°C	D 445	CSt	29,18
Viscosity index	D 2270		156
Flash point COC	D 92	°C	216
Pour point	D 97	°C	-45



#### Meets the requirements/specifications:

SAE 75W-140, API GL-5 LS (Limited Slip), MIL-L 2105 D.

#### Volume/weight:/Art.-Nr.:

**1L** (FF8707-1); **10L** (FF8707-10);  
**20L** (FF8707-20); **60L** (FF8707-60);  
**208L** (FF8707-DR); **1000L** (FF8707-IBC)

# ENGINE OILS AND ADDITIVES FOR TRUCKS, BUSES AND MIXED VEHICLE FLEET



## TRD-8 UHPD

### Fully Synthetic Engine Oil for Trucks



#### Description:

A fully synthetic Ultra High Performance Diesel (UHPD) engine oil that satisfies the strictest standards of the truck producers. Thanks to its unique consistence has perfect viscosity-temperature properties that guarantee easy cranking at extremely low temperatures and safe protection from wear-out at high loads and temperatures. Effectively reduces the frictional heating. Significantly prolongs the interval between oil changes (according to the producer's ins instructions). Has good detergent and dispersive properties providing perfect cleanness of the engine components and ageing resistance. Provides efficient engine combustion.

#### Meets the requirements/specifications:

SAE 5W-30, UHPD, ACEA E4/E7, MB 228.5, CUMMINS CES 20077, DEUTZ DQC IV-10, MAN M 3277, MACK EO-N, MTU Type 3, RENAULT RXD/ RLD-2.

#### Product Characteristics:

Test	Method	Unit	Result
SAE-class			5W-30
Density at 15°C	D 1298	kg/m <sup>3</sup>	864
Viscosity at 40°C	D 445	CSt	77,20
Viscosity at 100°C	D 445	CSt	11,98
Viscosity at -30°C	D 5293	CP	6600
Viscosity index	D 2270		150
Flash point COC	D 92	°C	224
Pour point	D 97	°C	-45
TBN	D 2896	gKOH/kg	12,54

#### Volume/weight:/Art.-Nr.:

10L (FF6108-10); 20L (FF6108-20);  
60L (FF6108-60); 208L (FF6108-DR);  
1000L (FF6108-IBC)

## TRD-10 UHPD

### Fully Synthetic Engine Oil for Trucks



#### Description:

A fully synthetic Ultra High Performance Diesel (UHPD) engine oil that satisfies the strictest standards of the truck producers. Thanks to its unique consistence has perfect viscosity-temperature properties that guarantee easy cranking at extremely low temperatures and safe protection from wear-out at high loads and temperatures. Effectively reduces the frictional heating. Significantly prolongs the interval between oil changes (according to the producer's ins instructions). Has good detergent and dispersive properties providing perfect cleanness of the engine components and ageing resistance. Provides efficient engine combustion.

#### Meets the requirements/specifications:

SAE 5W-40, UHPD, API CI-4/SL, ACEA E4/E7, MB 228.5, MAN M 3277, VOLVO VDS-3, RENAULT RLD-2, MACK EO-N.

#### Product Characteristics:

Test	Method	Unit	Result
SAE-class			5W-40
Density at 15°C	D 1298	kg/m <sup>3</sup>	862
Viscosity at 40°C	D 445	CSt	89,99
Viscosity at 100°C	D 445	CSt	13,40
Viscosity at -30°C	D 5293	CP	6580
Viscosity index	D 2270		150
Flash point COC	D 92	°C	224
Pour point	D 97	°C	-48
TBN	D 2896	gKOH/kg	12,62

#### Volume/weight:/Art.-Nr.:

5L (FF6110-5); 10L (FF6110-10);  
20L (FF6110-20); 60L (FF6110-60);  
208L (FF6110-DR); 1000L (FF6110-IBC)

## TRD-11

### Universal Engine Oil for Trucks



#### Description:

A engine oil specifically formulated for gas engines, and has high performance properties. Designed to meet the requirements of today's modern four-stroke engines, formulated to provide reliable protection for trucks and buses which runs on compressed (CNG), liquefied (LNG) natural gas or liquefied petroleum gas (LPG). FANFARO TRD-11 uses high quality base oils and an advanced additive system with low sulphated ash, which deliver exceptional thermal, oxidation stability and nitration resistance. FANFARO TRD-11 is balanced to provide perfect anti-wear protection characteristics to protect valve train components, pistons, cylinder liners and bearings. Low levels of Zinc and Phosphorous helps to improve and extend catalytic converter service life.

#### Meets the requirements/specifications:

SAE 15W-40,  
CUMMINS CES 20074, DETROIT DIESEL PGOS 93K216.

#### Product Characteristics:

Test	Method	Unit	Result
SAE-class			15W-30
Density at 15°C	D 1298	kg/m <sup>3</sup>	880
Viscosity at 40°C	D 445	CSt	121,75
Viscosity at 100°C	D 445	CSt	15,80
Viscosity at -20°C	D 5293	CP	6574
Viscosity index	D 2270		137
Flash point COC	D 92	°C	222
Pour point	D 97	°C	-35
TBN	D 2896	gKOH/kg	4,82

#### Volume/weight:/Art.-Nr.:

10L (FF6111-10); 20L (FF6111-20);  
60L (FF6111-60); 208L (FF6111-DR);  
1000L (FF6111-IBC)

## TRD-12 SHPD

### Semi-synthetic Engine Oil for Trucks



#### Description:

A high performance diesel engine oil designed for optimum lubrication under heavy operating conditions. The high-quality additive package reduces soot entry and acid-related seal aging due to low diesel quality. Protects against oil thickening, high temperature deposits, sludge formation, oil degradation and corrosion. Excellent low temperature fluidity and high temperature viscosity allows the use in most diesel applications.

#### Meets the requirements/specifications:

SAE 10W-30, API CG-4/CF-4/CF/SL,  
MB 228.3/229.1, MTU Type 2, MACK EO-L, VOLVO VDS-2,  
MAN 3275.

#### Product Characteristics:

Test	Method	Unit	Result
SAE-class			10W-30
Density at 15°C	D 1298	kg/m <sup>3</sup>	867
Viscosity at 40°C	D 445	CSt	70,74
Viscosity at 100°C	D 445	CSt	11,04
Viscosity at -25°C	D 5293	CP	5326
Viscosity index	D 2270		147
Flash point COC	D 92	°C	224
Pour point	D 97	°C	-38
TBN	D 2896	gKOH/kg	12,10

#### Volume/weight:/Art.-Nr.:

10L (FF6112-10); 20L (FF6112-20);  
60L (FF6112-60); 208L (FF6112-DR);  
1000L (FF6112-IBC)

## TRD-14 UHPD

### Semi-synthetic Engine Oil for Trucks



#### Description:

A semi-synthetic Ultra High Performance Diesel (UHPD) engine oil that satisfies the strictest standards of the truck producers. Thanks to its unique consistence has perfect viscosity-temperature properties that guarantee easy cranking at extremely low temperatures and safe protection from wear-out at high loads and temperatures. Effectively reduces the frictional heating. Significantly prolongs the interval between oil changes (according to the producer's instructions). Has good detergent and dispersive properties providing perfect cleanness of the engine components. Provides efficient engine combustion.

#### Meets the requirements/specifications:

SAE 15W-40, API CJ-4/SN, ACEA E7/E9,  
MB 228.31, RENAULT RLD-3, VOLVO VDS-4, MAN 3575,  
MTU Type 2.1, CATERPILLAR ECF-2/ECF-3, DEUTZ DQC III-10 LA,  
CUMMINS CES 20081/76/78, DETROIT DIESEL 93K218/K215/K214,  
MACK EO-O Premium Plus, SCANIA Low Ash.

#### Product Characteristics:

Test	Method	Unit	Result
SAE-class			15W-40
Density at 15°C	D 1298	kg/m <sup>3</sup>	872
Viscosity at 40°C	D 445	CSt	102,20
Viscosity at 100°C	D 445	CSt	14,26
Viscosity at -20°C	D 5293	CP	6250
Viscosity index	D 2270		142
Flash point COC	D 92	°C	226
Pour point	D 97	°C	-40
TBN	D 2896	gKOH/kg	9,82

#### Volume/weight:/Art.-Nr.:

5L (FF6114-5); 10L (FF6114-10);  
20L (FF6114-20); 60L (FF6114-60);  
208L (FF6114-DR); 1000L (FF6114-IBC)

## TRD-15 SHPD

### Universal Engine Oil for Trucks



#### Description:

A special high-quality Super High Performance Diesel (SHPD) engine oil on a mineral basis for heavily loaded diesels of lorries and regular buses. Provides safe engine combustion at extreme loads and perfect protection from wear-out and corrosion. Thanks to special additives it has a low congelation temperature and provides easy cold cranking. Good detergent and dispersive properties provide perfect cleanliness and safe lubrication of the engine components.

#### Meets the requirements/specifications:

SAE 20W-50, API CI-4/CF/SL, ACEA E7, MB 228.3, MAN M 3275, CATERPILLAR ECF-1-a, Global DHD-1.

#### Product Characteristics:

Test	Method	Unit	Result
SAE-class			20W-50
Density at 15°C	D 1298	kg/m <sup>3</sup>	883
Viscosity at 40°C	D 445	CSt	161,88
Viscosity at 100°C	D 445	CSt	19,06
Viscosity at -15°C	D 5293	CP	6131
Viscosity index	D 2270		133
Flash point COC	D 92	°C	230
Pour point	D 97	°C	-35
TBN	D 2896	gKOH/kg	10,43

#### Volume/weight:/Art.-Nr.:

**5L** (FF6115-5); **10L** (FF6115-10);  
**20L** (FF6115-20); **60L** (FF6115-60);  
**208L** (FF6115-DR); **1000L** (FF6115-IBC)

## TRD E4 UHPD

### Synthetic Engine Oil for Trucks



#### Description:

A synthetically-based Ultra High Performance Diesel (UHPD) engine oil that satisfies the strictest standards of the truck producers. Thanks to its unique consistence has perfect viscosity-temperature properties that guarantee easy cranking at extremely low temperatures and safe protection from wear-out at high loads and temperatures. Effectively reduces the frictional heating. Significantly prolongs the interval between oil changes (according to the producer's instructions). Has good detergent and dispersive properties providing perfect cleanness of the engine components. Provides efficient engine combustion.

#### Meets the requirements/specifications:

SAE 10W-40, UHPD, API CI-4/SL, ACEA E4/E7, MB 228.5, MAN M 3277/3377, VOLVO VDS 3, MTU Type 3, RENAULT RXD/RLD-2, DEUTZ IV-10, MACK EO-N/ EO-M+, CUMMINS 20078, Global DHD-1, DETROIT DIESEL 93K215.

#### Product Characteristics:

Test	Method	Unit	Result
SAE-class			10W-40
Density at 15°C	D 1298	kg/m <sup>3</sup>	862
Viscosity at 40°C	D 445	CSt	85,20
Viscosity at 100°C	D 445	CSt	13,02
Viscosity at -25°C	D 5293	CP	6800
Viscosity index	D 2270		153
Flash point COC	D 92	°C	224
Pour point	D 97	°C	-35
TBN	D 2896	gKOH/kg	12,56

#### Volume/weight:/Art.-Nr.:

**10L** (FF6106-10); **20L** (FF6106-20);  
**60L** (FF6106-60); **208L** (FF6106-DR);  
**1000L** (FF6106-IBC)

## TRD E6 UHPD

### Synthetic Engine Oil for Trucks



#### Description:

A synthetically-based Ultra High Performance Diesel (UHPD) engine oil that satisfies the strictest standards of the truck producers. Thanks to its unique consistence has perfect viscosity-temperature properties that guarantee easy cranking at extremely low temperatures and safe protection from wear-out at high loads and temperatures. Effectively reduces the frictional heating. Significantly prolongs the interval between oil changes (according to the producer's instructions). Has good detergent and dispersive properties providing perfect cleanness of the engine components. Provides efficient engine combustion.

#### Meets the requirements/specifications:

SAE 10W-40, API CJ-4, ACEA E7/E9-2012, MB 228.31/228.51, VOLVO VDS-4, RENAULT RLD-2/RLD-3, CATERPILLAR ECF-3, CUMMINS CES 20081, MTU Type 3.1, DETROIT DIESEL PGOS 93K218, DEUTZ DQC IV-10 LA, SCANIA LDF-3, MACK EO-O Premium Plus, MAN M 3477, M 3575, M 3271-1.

#### Product Characteristics:

Test	Method	Unit	Result
SAE-class			10W-40
Density at 15°C	D 1298	kg/m <sup>3</sup>	856
Viscosity at 40°C	D 445	CSt	79,20
Viscosity at 100°C	D 445	CSt	13,06
Viscosity at -25°C	D 5293	CP	5540
Viscosity index	D 2270		166
Flash point COC	D 92	°C	224
Pour point	D 97	°C	-38
TBN	D 2896	gKOH/kg	10,20

#### Volume/weight:/Art.-Nr.:

**10L** (FF6107-10); **20L** (FF6107-20);  
**60L** (FF6107-60); **208L** (FF6107-DR);  
**1000L** (FF6107-IBC)



## TRD SHPD



### Universal Engine Oil for Trucks

#### Description:

A special high quality Super High Performance Diesel (SHPD) engine oil with mineral basis for heavily loaded lorries and regular buses' diesels. Provides safe engine combustion at extreme loads and perfect protection from the components wear-out and corrosion. Thanks to low congealation temperature provides easy cold cranking. Good detergent and dispersive properties provide perfect cleanness and safe lubrication of the engine components. Prolongs the interval between oil changes (according to the producer's instructions).

#### Meets the requirements/specifications:

SAE 15W-40, SHPD, API CH-4/CG-4/CF-4/SL, ACEA E3/A3/B3, MAN 3275, MB 228.3/229.1, VOLVO VDS-2.

#### Product Characteristics:

Test	Method	Unit	Result
SAE-class			15W-40
Density at 15°C	D 1298	kg/m <sup>3</sup>	886
Viscosity at 40°C	D 445	CSt	108,33
Viscosity at 100°C	D 445	CSt	14,41
Viscosity at -20°C	D 5293	CP	6950
Viscosity index	D 2270		135
Flash point COC	D 92	°C	226
Pour point	D 97	°C	-40
TBN	D 2896	gKOH/kg	8,70

#### Volume/weight./Art.-Nr.:

5L (FF6101-5); 10L (FF6101-10);  
20L (FF6101-20); 60L (FF6101-60);  
208L (FF6101-DR); 1000L (FF6101-IBC)

## TRD Super SHPD



### Synthetic Engine Oil for Trucks

#### Description:

A special high quality Super High Performance Diesel (SHPD) engine oil with mineral basis for diesel trucks and regular buses. Provides safe engine combustion at extreme loads and perfect protection from the components wear-out and corrosion. Thanks to special additives has low congealation temperature and provides easy cold cranking. Good detergent and dispersive properties provide perfect cleanness.

#### Meets the requirements/specifications:

SAE 15W-40, SHPD, API CI-4/CF/SL, ACEA E7, MB 228.3, VOLVO VDS-3, RENAULT RLD-2, MTU Type2, CUMMINS CES 20076/77/78, CATERPILLAR ECF-2, Global DHD-1, DEUTZ DQC-III-10, DETROIT DIESEL 93K215, MACK EO-N, MACK EO-M Plus, MAN 3275.

#### Product Characteristics:

Test	Method	Unit	Result
SAE-class			15W-40
Density at 15°C	D 1298	kg/m <sup>3</sup>	886
Viscosity at 40°C	D 445	CSt	109,31
Viscosity at 100°C	D 445	CSt	14,51
Viscosity at -20°C	D 5293	CP	6980
Viscosity index	D 2270		135
Flash point COC	D 92	°C	226
Pour point	D 97	°C	-42
TBN	D 2896	gKOH/kg	10,88

#### Volume/weight./Art.-Nr.:

5L (FF6104-5); 7L (FF6104-7);  
10L (FF6104-10); 20L (FF6104-20);  
60L (FF6104-60); 208L (FF6104-DR);  
1000L (FF6104-IBC)

## TRD W UHPD



### Semi-synthetic Engine Oil for Trucks

#### Description:

A semi-synthetic Ultra High Performance Diesel (UHPD) engine oil, meeting the highest performance standards for large trucks. Intended for truck fleet operators, seeking the best available lubricating oil technology, in order to meet the increasingly stringent emission limits that are imposed on diesel engines in Europe.

#### Meets the requirements/specifications:

SAE 10W-40, UHPD, API CI-4/SL, ACEA E7, MB 228.3, MAN 3275, VOLVO VDS-3, MTU Type 2, MACK EO-N MACK EO-M Plus, RENAULT RLD-2, CUMMINS CES 20076/77/78, CATERPILLAR ECF-2, Global DHD-1, DEUTZ DQC-III-10.

#### Product Characteristics:

Test	Method	Unit	Result
SAE-class			10W-40
Density at 15°C	D 1298	kg/m <sup>3</sup>	876
Viscosity at 40°C	D 445	CSt	102,02
Viscosity at 100°C	D 445	CSt	14,40
Viscosity at -25°C	D 5293	CP	6950
Viscosity index	D 2270		145
Flash point COC	D 92	°C	224
Pour point	D 97	°C	-45
TBN	D 2896	gKOH/kg	10,64

#### Volume/weight./Art.-Nr.:

4L (FF6105-4); 5L (FF6105-5);  
7L (FF6105-7); 10L (FF6105-10);  
20L (FF6105-20); 60L (FF6105-60);  
208L (FF6105-DR); 1000L (FF6105-IBC)

## TRD 50 SHPD

### Universal Engine Oil for Trucks

#### Description:

A special multigrade Super High Performance Diesel (SHPD) engine oil of the highest quality with mineral basis and additives providing optimal wear-out protection at every engine combustion mode. Is produced for the use in diesel engines of trucks, regular buses, etc. Has good antioxygenic and dispersive properties. Provides the cleanness of the engine components and prolongs the interval between oil changes (according to the producer's instructions).

#### Meets the requirements/specifications:

SAE 20W-50, SHPD, API CH-4/SL, ACEA E3/A3/B3,  
MAN 3275, MB 228.1/229.1, VOLVO VDS, MTU Type 2.

#### Product Characteristics:

Test	Method	Unit	Result
SAE-class			20W-50
Density at 15°C	D 1298	kg/m <sup>3</sup>	894
Viscosity at 40°C	D 445	CSt	166,77
Viscosity at 100°C	D 445	CSt	18,20
Viscosity at -15°C	D 5293	CP	9450
Viscosity index	D 2270		121
Flash point COC	D 92	°C	224
Pour point	D 97	°C	-28
TBN	D 2896	gKOH/kg	8,42

#### Volume/weight:/Art.-Nr.:

7L (FF6102-7);                      10L (FF6102-10);  
20L (FF6102-20);                60L (FF6102-60);  
208L (FF6102-DR);            1000L (FF6102-IBC)





## M-2T

### Universal 2-stroke Engine Oil

#### Description:

A mineral oil for air-cooled 2-stroke gasoline engines, intended for machines, of which the fuel tank is filled with a mixture of gasoline and oil, and also for machines, equipped with separate tanks. Ensures excellent anti-wear protection. Always follow the fuel ratios recommended by the constructor.

#### Product Characteristics:

Test	Method	Unit	Result
Density at 15°C	D 1298	kg/m <sup>3</sup>	883
Viscosity at 40°C	D 445	CSt	77,02
Viscosity at 100°C	D 445	CSt	9,98
Viscosity index	D 2270		110
Flash point COC	D 92	°C	142
Pour point	D 97	°C	-28
TBN	D 2896	gKOH/kg	1,06



#### Meets the requirements/specifications:

API TC, JASO FB ISO-L-EGB.

#### Volume/weight:/Art.-Nr.:

1L (FF6202-1); 10L (FF6202-10);  
20L (FF6202-20); 60L (FF6202-60);  
208L (FF6202-DR); 1000L (FF6202-IBC)

## M-4T+

### Synthetic 4-stroke Engine Oil

#### Description:

Highly additivated synthetic engine oil which by the choice of additives, the base oils and the viscosity grade provides fuel saving operation of the engines. Perfectly suited for all year operation in all modern bike engines (no sludge formation, excellent results in the sludge test). Excellent engine cleanliness is guaranteed.

#### Product Characteristics:

Test	Method	Unit	Result
SAE-class			10W-40
Density at 15°C	D 1298	kg/m <sup>3</sup>	860
Viscosity at 40°C	D 445	CSt	87,76
Viscosity at 100°C	D 445	CSt	13,30
Viscosity at -25°C	D 5293	CP	5820
Viscosity index	D 2270		152
Flash point COC	D 92	°C	222
Pour point	D 97	°C	-38
TBN	D 2896	gKOH/kg	6,10



#### Meets the requirements/specifications:

SAE 10W-40, API SL, JASO MA/MA2.

#### Volume/weight:/Art.-Nr.:

1L (FF6201-1); 10L (FF6201-10);  
20L (FF6201-20); 60L (FF6201-60);  
208L (FF6201-DR); 1000L (FF6201-IBC)



# Outboard 2T

## Synthetic 2-stroke Engine Oil

### Description:

A synthetic two-stroke oil for all water-cooled engines. Specially recommended for outboard engines, water scooters, jet-ski, etc. Also recommended for two-stroke engines requiring an oil from API TC or NMMA TC-W3 level. Ensures high protection against rust and corrosion. Always follow the fuel ratios recommended by the constructor.

### Meets the requirements/specifications:

API TC, NMMA TC-W3.

### Product Characteristics:

Test	Method	Unit	Result
Density at 15°C	D 1298	kg/m <sup>3</sup>	872
Viscosity at 40°C	D 445	CSt	54,93
Viscosity at 100°C	D 445	CSt	8,96
Viscosity index	D 2270		142
Flash point COC	D 92	°C	102
Pour point	D 97	°C	-39

### Volume/weight./Art.-Nr.:

1L (FF6203-1);                   10L (FF6203-10);  
20L (FF6203-20);               60L (FF6203-60);  
208L (FF6203-DR);           1000L (FF6203-IBC)





# HYDRO HV ISO 32/46/68

## Industrial Hydraulic Oil

**Description:**

FANFARO Hydro HV ISO 32/46/68 are high-performance hydraulic oils blended in combination with hydrotreated base oils to meet the requirements of the most demanding hydraulic systems. Specifically developed to reduce maintenance costs to a minimum and increase productivity by keeping hydraulic systems running efficiently.

**Meets the requirements/specifications:**

ISO VG 32/46/68, Parker Denison HF-0, HF-1, HF-2 (HM, HV), Eaton M-2950-S and I-286-S3, MAG P68, P69, P70 (HM, HV), DIN 51524-2 (HLP), DIN 51524-3 (HVL), ISO 11158 (HM, HV), ASTM D6158 (HM, HV), SAE MS 1004 (HM, HV), SEB 181222, ANSI/AGMA 9005-E02-RO, BOSCH REXROTH RE 90220, JCMAS P041 HK Hydraulic specification, GM LS-2, AIST 126, 127.

**Product Characteristics:**

Test	Method	Unit	Result		
ISO-class			32	46	68
Density at 15°C	D 1298	kg/m <sup>3</sup>	848	879	878
Viscosity at 40°C	D 445	CSt	29,20	45,55	61,93
Viscosity at 100°C	D 445	CSt	6,14	8,24	10,20
Viscosity index	D 2270		165	157	152
Flash point COC	D 92	°C	210	216	220
Pour point	D 97	°C	-40	-40	-40

**Volume/weight:/Art.-Nr.:**

ISO32 10L (FF2201-10); 20L (FF2201-20);  
60L (FF2201-60); 208L (FF2201-DR);1000L (FF2201-IBC).  
ISO46 10L (FF2202-10); 20L (FF2202-20);  
60L (FF2202-60); 208L (FF2202-DR);1000L (FF2202-IBC).  
ISO68 10L (FF2203-10); 20L (FF2203-20);  
208L (FF2203-DR).

# HYDRO ISO 32/46/68

## Industrial Hydraulic Oil

**Description:**

Fanfaro Hydro ISO 32/46/68 is a mineral oil, specially designed for usage in hydraulic equipment. Specially designed to meet the requirements of industrial hydraulic systems operating under heavy loads, pressure, temperature or velocity. Applicable also for the lubrication of industrial equipment, transmissions, pneumatic systems, etc. Contains anti-wear, antioxidant, anti-corrosion and anti-foam additives. Distinguishes itself with its demulsifying properties, high viscosity, low pour point and long lifespan.

**Meets the requirements/specifications:**

ISO 32/46/68, ISO HLP, ISO 11158, DIN EN ISO 6743/4:HM, DIN 51524 part 2,1, AFNOR NF E 48-603, DENISON FILTERABILITY TP 02100, SPERRY VICKERS I-286-S, US STEEL 126/127.

**Product Characteristics:**

Test	Method	Unit	Result		
ISO-class			32	46	68
Density at 15°C	D 1298	kg/m <sup>3</sup>	880	882	882
Viscosity at 40°C	D 445	CSt	30,95	47,18	62,6
Viscosity at 100°C	D 445	CSt	5,35	6,62	8,17
Viscosity index	D 2270		106	91	97
Flash point COC	D 92	°C	208	216	220
Pour point	D 97	°C	-40	-38	-35

**Volume/weight:/Art.-Nr.:**

ISO32 10L (FF2101-10); 20L (FF2101-20);  
60L (FF2101-60); 208L (FF2101-DR);1000L (FF2101-IBC).  
ISO46 10L (FF2102-10); 20L (FF2102-20);  
60L (FF2102-60); 208L (FF2102-DR);1000L (FF2102-IBC).  
ISO68 10L (FF2103-10); 20L (FF2103-20);  
60L (FF2103-60); 208L (FF2103-DR);1000L (FF2103-IBC).



# HYDRO HV ISO 22 VI 245/280

## Industrial Hydraulic Oil

### Description:

FANFARO Hydro HV ISO 22 is a hydraulic oil with a high viscosity index on a synthetic basis, specially developed for use in machines that are operated under extreme temperature fluctuations. The oil is applicable all year round and has excellent cold properties. It reliably protects machinery and equipment from breakdowns and faults under arctic operation conditions when a reliable start and a fault-free operation are indispensable. The oil's extremely high viscosity index ensures minimal changes in viscosity within the wide temperature range including extreme temperature fluctuations, which guarantees a fault-free operation of the hydraulic systems. The oil is designed for use in watercraft (hydraulic equipment on deck) and land transportation (hydraulic equipment of heavy load vehicles, road construction and timber production machinery) operated under extreme conditions. It is particularly suited for load machines with lifting devices that are irregularly used and in heavy frost without pre-heating.

### Meets the requirements/specifications:

PARKER DENISON HF-0, HF-1, HF-2 (HM, HV), EATON M-2950-S and I-286-S3, SAE MS 1004 (HM, HV), MAG P68, P69, P70 (HM, HV), DIN 51524 Part-2 (HM), DIN 51524 Part-3 (HV), ISO 11158 (HM, HV), ASTM D 6158 (HM, HV), BOSCH REXROTH RE 90220, JCMAS P041 HK Hydraulic specification, ANSI/AGMA 9005-E02-RO, GM LS-2, AIST 126/ 127, SEB 181222.

### Product Characteristics:

Test	Method	Unit	Result
SAE-class			245 280
Density at 15°C	D 1298	kg/m <sup>3</sup>	848 847
Viscosity at 40°C	D 445	CSt	22,3 23,5
Viscosity at 100°C	D 445	CSt	6,20 6,85
Viscosity index	D 2270		245 281
Flash point COC	D 92	°C	204 206
Pour point	D 97	°C	-51 -51

### Volume/weight:/Art.-Nr.:

VI 245 10L (FF2204-10); 20L (FF2204-20);  
60L (FF220460); 208L (FF2204-DR);1000L (FF2204-IBC);  
VI 280 10L (FF2206-10); 20L (FF2206-20);  
60L (FF2206-60);

# COMPRESSOR OIL ISO 46/100

## Fully Synthetic Gear Oil

### Description:

Fanfaro Compressor Oil ISO 46/100 is a special mineral oil on the highly purified basic, designed for lubrication of pneumatic tools, reciprocating and rotary compressors. Ashless additive package prevents the formation of high-temperature deposits. Has excellent anti-corrosion, anti-wear and extreme pressure characteristics. Provides a stable and uninterrupted operation of equipment during the entire lifespan.

### Meets the requirements/specifications:

ISO 46/100, ISO-L DAA/DAB/DAG/DAH, DIN 51506, VBL/VCL/VDL, ISO 6743/11 Class P, DENISON T-6H20C Hybrid Pump (A-TP-30533) pass for DENISON HF-0

### Product Characteristics:

Test	Method	Unit	Result
SAE-class			46 100
Density at 15°C	D 1298	kg/m <sup>3</sup>	883 888
Viscosity at 40°C	D 445	CSt	45,08 104,12
Viscosity at 100°C	D 445	CSt	6,58 11,44
Viscosity index	D 2270		96 96
Flash point COC	D 92	°C	216 216
Pour point	D 97	°C	-35 -28

### Volume/weight:/Art.-Nr.:

ISO46 20L (FF2901-20);  
ISO100 20L (FF2902-20); 208L (FF2902-DR);

Find the right product with your smartphone:





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