

## MATERIAL SAFETY DATA SHEET

Date of issue: 11.07.2019

Revision: 1.0EN

[Prepared under Regulation EC 1907/2006 (REACH) ]

### Section 1: Identification of the substance/mixture and of the company/undertaking

- 1.1 Product identifier  
Trade name: VENOL Semisynthetic SM SL CF 10W40
- 1.2. Identified uses: multigrade engine oil  
Uses advised against: not specified.
- 1.3 Details of the supplier of the safety data sheet  
Distributor: VENOL MOTOR OIL Sp. z o. o.  
Address: ul. Lodowa 107, 93-232 Łódź  
Phone/fax: +48 42 649-15-68/+48 42 649-24-93  
Email address of the person responsible for the MSDS: [laboratorium@venol.pl](mailto:laboratorium@venol.pl)
- 1.4 Emergency telephone number  
112 (emergency telephone number), 998 (fire service), 999 (ambulance)

### Section 2: Hazards identification

- 2.1 Classification of the substance or mixture

**Eye Irrit. 2 H 319**

Causes serious eye irritation.

- 2.2 Label elements

Hazard pictogram and signal word



Warning

Hazard statements

H319 Causes serious eye irritation

Precautionary statements

P 102 Keep out of reach of children

P 264 Wash hands thoroughly after handling

P 280 Wear protective gloves/protective clothing/eye protection/face protection

P305 +P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing

P337+P313 If eye irritation persists. Get medical advice/attention

- 2.3 Other hazards

No information on meeting the PBT or vPvB criteria in accordance with Annex XIII of the REACH Regulation. Appropriate examinations were not carried out.

## Section 3: Composition / information on ingredients

### 3.1 Substances

Not applicable.

### 3.2 Mixtures

Number of CAS: 64742-54-7 Number of WE: 265-157-1 Number of index: 649-467-00-8 Number of proper registration: 01-2119484627-25-XXX	<u>Base oil unspecified<sup>1*</sup></u> Classification according to 1272/2008 / EC: substance is not classified as Hazardous	< 85%
Numer CAS: 68457-79-4 Numer WE: 270-608-0 Number of index: - Number of proper registration: 01-2119493628-22-XXX	<u>Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts</u> Skin Irrit.2 H315, Eye Dam. 1 H318, Aquatic Chronic 2 H411	1 - 2%

1 - substance with national exposure limit in the workplace.

\* Classification after taking into account comments L, the substance contains less than 3% DMSO extract.  
 Full text of H-phrases in section 16.

## Section 4: First aid measures

### 4.1 Description of first aid measures

If on skin: take the contaminated clothing off. Wash contaminated skin with plenty of water with soap or mild detergent, and next rinse with water. If any disturbing symptoms occur contact a physician. Wash the clothing before reuse.

If in eyes: rinse with plenty of clean water for 10-15 min. Protect the non-irritated eye, remove contact lenses. Consult a physician if any disturbing symptoms occur.

If swallowed: do not induce vomiting. For spontaneous vomiting lean the victim forward in order to minimize the

risk of aspiration. Do not administer milk, grease, alcohol. Never put anything into mouth of an unconscious person. Consult a physician if any worrying affections occur.

If inhaled: remove the victim to fresh air, keep warm and at rest. If any disturbing affections occur consult a physician.

### 4.2 Most important symptoms and effects, both acute and delayed

If in eyes: redness, lacrimation, burning.

If on skin: for a prolonged contact possible dryness, skin cracking and chronic dermatitis.

If swallowed: possible nausea, vomiting, stomach pain, irritation of the digestive system.

If inhaled: for a high vapour concentration the product may cause headache and dizziness, irritation of mucus membranes of the respiratory system, during prolonged exposure, aberrations of the central nervous system, movement coordination troubles, confusion, drowsiness, inconscience.

### 4.3 Indication of any immediate medical attention and special treatment needed.

Decision on the method of the helping procedure shall be made by a physician after a thorough assessment of the victim's condition.

## Section 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media: foams, water mist, dry agents, CO<sub>2</sub>.

Unsuitable extinguishing media: water jet - a risk of fire spreading.

### 5.2 Special hazards arising from the substance or mixture

In fire conditions, it may produce harmful gases containing carbon oxides, unidentified products of thermal decomposition of higher hydrocarbons. Avoid inhaling combustion products, as they may pose a health hazard.

### 5.3 Advice for firefighters

Wear general protective equipment typical for fire. Do not stay in a fire hazard zone without an appropriate clothing resistant to chemicals and a self-contained breathing apparatus. Do not allow fire fighting water to get into sewage, surface water or ground water.

## Section 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

For non emergency personnel: restrict access of outsiders to the affected area until appropriate decontamination operations have been finished. For large releases insulate the threatened area. Do not inhale vapours and aerosols. Avoid skin and eye contact. Remove all ignition sources, extinguish open fire, do not smoke. Use personal protective equipment. Spilt oil may cause slippery surface.

For emergency responders: ensure that the failure and its effects are removed by trained personnel only. Use personal protection. Do not inhale vapours. Avoid skin and eye contact.

### 6.2 Environmental precautions

Do not dispose to drains, surface and ground water. For release of bigger amounts of the mixture take measures to prevent spreading in the environment. Notify relevant rescue services.

### 6.3 Methods and material for containment and cleaning up

Place a damaged packaging in a substitute pack. Collect spill with non-flammable materials absorbing liquids (e.g. sand, soil, diatomaceous earth, vermiculite) and place it in closed containers. Treat the collected material as waste. Clean the contaminated place with water and detergent. Do not use sparking tools.

### 6.4 Reference to other sections

Handling product waste - see section 13. Personal protective equipment - see section 8.

## Section 7: Handling and storage

### 7.1 Precautions for safe handling

Work in accordance with health and safety rules. Do not eat, drink or smoke while working. Avoid eye and skin contact. Do not inhale vapours and aerosols. Wash your hands before a break and after finish of work. Ensure proper ventilation. Remove ignition sources - do not smoke. Do not use sparking tools. Containers not in use keep closed tight. Keep contaminated/soaked clothing away from heat and ignition sources.

### 7.2 Conditions for safe storage, including any incompatibilities

Store only in a cool and well ventilated place. Do not store together with food, groceries and animal feed. Avoid direct sunlight, heat and ignition sources. Do not store together with incompatible substances (see section 10).

### 7.3 Specific end use(s)

No information on uses other than referred to in subsection 1.2.

<b>Section 8:</b>	<b>Exposure controls/personal protection</b>
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## 8.1 Control parameters

Specification	TLV-TWA	TLV-STEL	TLV-C	BLV
mineral oils - (aerosol liquid phase)	5 mg/m <sup>3</sup>	-	—	-

Legal basis: Journal of Laws 2014, Item 817.

Recommended monitoring procedures:

Procedures for monitoring hazardous component concentrations in the air and procedures for air cleanliness check in a work place should be applied - if available and reasonable at a given position - pursuant to the relevant Polish or European Standards taking into account conditions prevailing in the place of exposure and appropriate methodology of measurement adopted to the working conditions. Mode, type and frequency of tests and measurements should meet the requirements included in the Regulation of the Ministry of Health of 2 February 2011 (Dz.U. No. 33, Item 166)

## 8.2. Exposure controls

Observe general safety and health protection rules. Do not eat, drink or smoke while working. Wash your hands thoroughly before a break and after finish of work. Avoid skin and eye contact. Provide general and/or local ventilation at a work place in order to maintain the hazardous agent concentration in the air below the set values of exposure limits.

Hand and body protection: it is recommended to use protective gloves made of e.g. perbutyl, viton, butyl rubber. For short-term contact use protective gloves with the protection index 2 or more (breakthrough time > 30 min). For long term contact use protective gloves with the protection index 6 (breakthrough time > 480 min). Use protective clothing

Material that is used for gloves must be impermeable and resistant to the product action. The material should be selected considering breakthrough times, permeation and degradation rate. In addition, the selection of appropriate gloves does not depend on the material only, but also on other qualitative features and changes depending on the manufacturer. Obtain information on the exact breakthrough time from the manufacturer and observe it.

Eye protection: use protective goggles if a risk of splash occurs.

Respiratory protection: not required if there is a proper ventilation. If vapours and aerosols are formed use absorbing or absorbing and filtering equipment with an adequate protection class (class 1/protection against gases or vapours with a volumetric concentration in the air not exceeding 0.1%; class 2/ protection against gases or vapours with a volumetric concentration in the air not exceeding 0.5%; class 3/ protection against gases or vapours with a volumetric concentration in the air up to 1%). If oxygen concentration is ≤ 17% and/or the maximum toxic substance concentration in the air is ≥ 1,0 % vol. isolating equipment should be applied.

Applied personal protections must meet requirements included in the Regulation of the Ministry of Economy of 28/12/2005 (Dz.U. No. 259, poz. 2173) and Directive 89/686/EC (as amended). The employer shall provide personal protection appropriate to the activities performed and meeting all quality requirements, including maintenance and cleaning.

Thermal hazards: do not occur.

Environmental exposure controls

Avoid discharges to the environment, do not dispose to drains. Possible emissions from ventilation systems and process equipment should be checked for their conformity with the environmental protection law requirements.

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<b>Section 9:                      Physical and chemical properties</b>
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**9.1 Information on basic physical and chemical properties**

state of mind / form: liquid

color: brown

aroma: characteristic for petroleum products

odor threshold: not determined

pH value: not determined

melting point / freezing point: not determined

initial boiling point and boiling range: not determined

flash point:  $\geq 210$  °C

evaporation Rate: not applicable

flammability (solid, gas): not determined

upper / lower explosive limit: not determined

vapor pressure: not determined

vapor density: not determined

density: not normalized

solubility: not soluble in water, soluble in solvents

organic and liquid hydrocarbons

n-octanol / water partition coefficient: not determined

auto-ignition temperature: not determined

decomposition temperature: not determined

explosive properties: not indicated

oxidizing properties: not applicable

kinematic viscosity (100 °C): 13,5-16,3 mm<sup>2</sup> /s

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## 9.2 Other information

Pour point temperature -30°C  
Viscosity index 140 min

## Section 10: Stability and reactivity

### 10.1 Reactivity

Does not undergo dangerous polymerisation. See also section 10.3 and 10.5.

### 10.2 Chemical stability

When used and stored correctly the product is stable.

### 10.3 Possibility of hazardous reactions

Hazardous reactions are unknown.

### 10.4 Conditions to avoid

Avoid direct sunlight, heat and ignition sources.

### 10.5 Incompatible materials

Avoid contact with strong oxidisers.

### 10.6 Hazardous decomposition products:

Unknown.

## Section 11: Toxicological information

### 11.1 Information on toxicological effects

#### Component toxicity

#### Base oil unspecified: [CAS: 64742-54-7]:

LD<sub>50</sub> (rat, oral) > 5000 mg/kg  
LD<sub>50</sub> (dermal, rabbit) > 5000 mg/kg  
LD<sub>50</sub> (rat, inhalation) 5,53 mg/l

#### Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts [CAS:68457-79-4]:

LD<sub>50</sub> (rat, oral) 3600 mg/kg  
LD<sub>50</sub> (dermal, rabbit) > 3160 mg/kg

#### Mixture toxicity

#### Acute toxicity

On the basis of available data, the classification criteria are not met.

#### Skin corrosion/irritation

On the basis of available data, the classification criteria are not met.

#### Serious eye damage/irritation

Causes serious eye irritation

#### Respiratory or skin sensitisation

On the basis of available data, the classification criteria are not met.

#### Germ cell mutagenicity

On the basis of available data, the classification criteria are not met.

#### Carcinogenicity

On the basis of available data, the classification criteria are not met.

#### Reproductive toxicity

On the basis of available data, the classification criteria are not met.

#### STOT - single exposure

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On the basis of available data, the classification criteria are not met.

## STOT - repeated exposure

On the basis of available data, the classification criteria are not met.

## Aspiration hazard

On the basis of available data, the classification criteria are not met.

## Section 12: Ecological information

### 12.1. Toxicity

#### Component toxicity

#### Base oil unspecified: [CAS: 64742-54-7]:

Toxicity for daphnia	EC <sub>50</sub> >10 000 mg/l/48h (Daphnia magna) NOEL 100 mg/l/21 days (Daphnia magna)
Toxicity for algae	EC <sub>50</sub> >100 mg/l/72h (Pseudokirchneriella subcapitata)
Toxicity for fish	LC <sub>50</sub> >100 mg/l/96h (Pimephales promelas) NOEL>1000 mg/l/28 days (Oncorhynchus mykiss)

#### Phosphorodithioic acid, mixed O,O-bis(iso-Bu and pentyl) esters, zinc salts [CAS:68457-79-4]:

Toxicity for daphnia	EC <sub>50</sub> > 5 mg/l/48h (Daphnia magna) NOEL 100 mg/l/21 days (Daphnia magna)
Toxicity for algae	EC <sub>50</sub> > 5 mg/l/96h (Pseudokirchneriella subcapitata)
Toxicity for fish	LC <sub>50</sub> >37,5 mg/l/96h (Pimephales promelas)

#### Mixture toxicity

The product is Harmful to aquatic life with long-lasting effects.

### 12.2. Persistence and degradability

No data

### 12.3 Ability to bioaccumulate

No data for mixture.

### 12.4. Mobility in soil

Product spreads in the soil; It can penetrate deep into the soil and cause pollution groundwater. Mobility of the components of the mixture depends on their hydrophilic and hydrophobic properties and abiotic and biotic conditions of the soil, including its structure, climatic conditions and organisms soil, (mainly bacteria, fungi, algae, invertebrates).

### 12.5. Results of evaluation of PBT and vPvB properties

PBT and vPvB properties have not been evaluated

### 12.6. Other harmful effects

The mixture is not classified as posing a threat to the ozone layer. Consider the possibility other harmful effects of the individual components of the mixture on the environment (eg disturbance of the hormonal economy). Low volatility product. Hydrocarbons being components of a product exhibit a low tendency to penetrate into the atmosphere. Water insoluble. Is gathering on water surface forming a layer that hinders the oxygen exchange. High molecular weight hydrocarbons. They can sediment in water.

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## Section 13: Disposal considerations

### 13.1 Waste treatment methods

Recommendations for the mixture: do not dispose into sewage. Utilize in accordance with the applicable regulations. The waste code should be assigned in the place of waste generation.

Recommendations for packaging waste: carry out recovery / recycling / disposal of packaging waste in accordance with the applicable regulations. Only fully emptied packaging may be intended for recycling.

Community legal acts: Directives of the European Parliament and of the Council: 2008/98/EC, 94/62/EC.

National legislation: Dz. U. 2013, Item 21, Dz.U. 2013 Item 888.

## Section 14: Transport information

### 14.1 UN number

Not applicable. The product is not classified as hazardous in transport.

### 14.2 UN proper shipping name

Not applicable.

### 14.3 Transport hazard class(es)

Not applicable.

### 14.4 Packing group

Not applicable.

### 14.5 Environmental hazards

Not applicable.

### 14.6 Special precautions for user

Not applicable.

### 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

## Section 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Act of 25 February 2011 on chemical substances and their mixtures (Dz.U. No. 63, Item 322, as amended).

Waste Act of 14 December 2012 (Dz.U. 2013, Item 21)

Act of 13 June 2013 on packaging and packaging waste management (Dz.U. 2013, Item 888)

Regulation of the Minister of Environment Protection of 9 December 2014 on waste catalogue (Dz.U. No. 2014, item 1923),

Regulation of the Minister of Economy of 21 December 2005 on essential requirements for personal protections (Dz.U. No. 259, item 2173).

Regulation of the Minister of Health of 2 February 2011 on testing and measurements of agents harmful to health in the work environment (Dz.U. No. 33, Item 166) as amended.

Government statement on coming into force of amendments to Annexes A and B to the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)

1907/2006/EC Regulation concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/WE (as amended)

1272/2008/EC Regulation of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (as amended)

2008/98/EC Directive of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives

94/62/EC Directive of the European Parliament and of the Council of 20 December 1994 on packaging and packaging waste. Chemical safety assessment

15.2 Chemical safety assessment for the mixture is not required.



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## Section 16: Other information

### Full text of H statements from section 3 of the card

H315	Causes skin irritation
H318	Causes serious eye damage
H411	Toxic to aquatic life with long-lasting effects

### Abbreviations and acronyms

PBT	Persistent, bioaccumulative and toxic
vPvB	Very persistent and very bioaccumulative
Aquatic Chronic 2	Chronic aquatic toxicity cat. 2
Eye Dam.1	Serious eye damage category 1
Skin Irrit.2	Skin irritation category 2
TLV-TWA	Threshold limit value - time weighted average
TLV-STEL	Threshold limit value - short-term exposure limit
TLV-C	Threshold limit value - ceiling limit
BLV	Biological limit value

### Training programs:

Before starting work with the product the user should learn occupational health and safety rules concerning handling chemicals, and in particular should undergo a relevant workplace training.

### Additional information

The classification was performed with the calculation method on the basis of data on hazardous constituent content based on the guidelines of the Minister of Health of 10 August 2012 on criteria and method of classification of hazardous substances and their mixtures (Dz.U. 2012.1018) and Regulation 1272/2008/EC (CLP).

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The above information has been created on the basis of currently available data characterizing the product and manufacturer's experience and knowledge on this area. It does not constitute the qualitative description of the product, or a promise of specific properties. It should be treated as an aid for safe handling in transport, storage and use of the product. It shall not release the user from any liability for improper use of the above information and from obeying any legal standards applicable in this area.

## MATERIAL SAFETY DATA SHEET

Date of issue: 10.07.2019

Revision: 1.0EN

[Prepared under Regulation EC 1907/2006 (REACH) ]

### Section 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name: VENOL Synthesis Premium Plus SN CF 5W/30 C4

Substances that have affected the classification: C14-16-18-alkyl phenol

1.2 Identified uses: engine oil

Uses advised against: not specified.

#### 1.3 Details of the supplier of the safety data sheet

Distributor: VENOL MOTOR OIL Sp. z o. o.

Address: ul. Lodowa 107, 93-232 Łódź

Phone/fax: +48 42 649-15-68/+48 42 649-24-93

Email address of the person responsible for the MSDS: [laboratorium@venol.pl](mailto:laboratorium@venol.pl)

#### 1.4 Emergency telephone number

112 (emergency telephone number), 998 (fire service), 999 (ambulance)

### Section 2: Hazards identification

#### 2.1 Classification of the substance or mixture

The product is not classified as hazardous to human health and the environment.

#### 2.2 Label elements

Hazard pictogram and password

No

Hazard statements

No

Hazard statements

No

Substances that have affected the classification: C14-16-18-alkyl phenol. May produce an allergic reaction.

#### 2.3 Other hazards

No information on meeting the PBT or vPvB criteria in accordance with Annex XIII of the REACH Regulation.

Appropriate examinations were not carried out.

## Section 3: Composition / information on ingredients

### 3.1 Substances

Not applicable.

### 3.2 Mixtures

Number of CAS: 72623-87-1 Number of WE: 276-738-4 Number of index: 649-483-005 Number of proper registration: 01-2119474889-13-XXXX	Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based <sup>1*</sup>  Asp.Tox. 1 H304	40-50%
Number of CAS: 64742-54-7 Number of WE: 265-157-1 Number of index: 649-467-00-8 Number of proper registration: 01-2119484627-25-XXXX	Base oil unspecified <sup>1*</sup> Classification according to 1272/2008 / EC: substance is not classified as Hazardous	25-35%
Numer CAS: 36878-20-3 Numer WE: 253-249-4 Number of index: - Number of proper registration: 01-2119488911-28-XXXX	Bis(nonylphenyl)amine  Aquatic Chronic 4 H413	0,3-1,5%
Numer CAS: 84605-29-8 Numer WE: 283-392-8 Number of index: - Number of proper registration: 01-2119493626-26-XXXX	Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts Skin Irrit.2 H315, Eye Dam. 1 H318, Aquatic Chronic 2 H411	0,1-0,9%
Numer CAS: - Numer WE: 931-466-2 Number of index: - Number of proper registration: 01-2119498288-19-XXXX	C14-16-18-alkyl phenol  Skin Sens. 1B H317, Aquatic Chronic 4 H413	0,01-0,15%

1 - substance with national exposure limit in the workplace.

\* Classification after taking into account comments L, the substance contains less than 3% DMSO extract.

Full text of H-phrases in section 16.

## Section 4: First aid measures

### 4.1 Description of first aid measures

**If on skin:** take the contaminated clothing off. Wash contaminated skin with plenty of water with soap or mild detergent, and next rinse with water. If any disturbing symptoms occur contact a physician. Wash the clothing before reuse.

**If in eyes** rinse with plenty of clean water for 10-15 min. Protect the non-irritated eye, remove contact lenses. Consult a physician if any disturbing symptoms occur.

**If swallowed:** do not induce vomiting. For spontaneous vomiting lean the victim forward in order to minimize the risk of aspiration. Do not administer milk, grease, alcohol. Never put anything into mouth of an unconscious person. Consult a physician if any worrying affections occur.

**If inhaled:** remove the victim to fresh air, keep warm and at rest. If any disturbing affections occur consult a physician.

#### 4.2 Most important symptoms and effects, both acute and delayed

If in eyes: redness, lacrimation, burning.

If on skin: for a prolonged contact possible dryness, skin cracking and chronic dermatitis.

If swallowed: possible nausea, vomiting, stomach pain, irritation of the digestive system.

If inhaled: for a high vapour concentration the product may cause headache and dizziness, irritation of mucus membranes of the respiratory system, during prolonged exposure, aberrations of the central nervous system, movement coordination troubles, confusion, drowsiness, inconscience.

#### 4.3 Indication of any immediate medical attention and special treatment needed.

Decision on the method of the helping procedure shall be made by a physician after a thorough assessment of the victim's condition.

### Section 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media: foams, water mist, dry agents, CO<sub>2</sub>.

Unsuitable extinguishing media: water jet - a risk of fire spreading.

#### 5.2 Special hazards arising from the substance or mixture

In fire conditions, it may produce harmful gases containing carbon oxides, unidentified products of thermal decomposition of higher hydrocarbons. Avoid inhaling combustion products, as they may pose a health hazard.

#### 5.3 Advice for firefighters

Wear general protective equipment typical for fire. Do not stay in a fire hazard zone without an appropriate clothing resistant to chemicals and a self-contained breathing apparatus. Do not allow fire fighting water to get into sewage, surface water or ground water.

### Section 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

For non emergency personnel: restrict access of outsiders to the affected area until appropriate decontamination operations have been finished. For large releases insulate the threatened area. Do not inhale vapours and aerosols. Avoid skin and eye contact. Remove all ignition sources, extinguish open fire, do not smoke. Use personal protective equipment. Spilt oil may cause slippery surface.

For emergency responders: ensure that the failure and its effects are removed by trained personnel only. Use personal protection. Do not inhale vapours. Avoid skin and eye contact.

#### 6.2 Environmental precautions

Do not dispose to drains, surface and ground water. For release of bigger amounts of the mixture take measures to prevent spreading in the environment. Notify relevant rescue services.

#### 6.3 Methods and material for containment and cleaning up

Place a damaged packaging in a substitute pack. Collect spill with non-flammable materials absorbing liquids (e.g. sand, soil, diatomaceous earth, vermiculite) and place it in closed containers. Treat the collected material as waste. Clean the contaminated place with water and detergent. Do not use sparking tools.

#### 6.4 Reference to other sections

Handling product waste - see section 13. Personal protective equipment - see section 8.

### Section 7: Handling and storage

#### 7.1 Precautions for safe handling

Work in accordance with health and safety rules. Do not eat, drink or smoke while working. Avoid eye and skin contact. Do not inhale vapours and aerosols. Wash your hands before a break and after finish of work. Ensure proper ventilation. Remove ignition sources - do not smoke. Do not use sparking tools. Containers not in use keep closed tight. Keep contaminated/soaked clothing away from heat and ignition sources.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store only in a cool and well ventilated place. Do not store together with food, groceries and animal feed.

Avoid direct sunlight, heat and ignition sources. Do not store together with incompatible substances (see section 10).

### 7.3 Specific end use(s)

No information on uses other than referred to in subsection 1.2.

## Section 8: Exposure controls/personal protection

### 8.1 Control parameters

Specification	TLV-TWA	TLV-STEL	TLV-C	BLV
mineral oils - (aerosol liquid phase)	5 mg/m <sup>3</sup>	-	—	-

Legal basis: Dz.U. 2014, No. 817 (Poland)

#### Recommended monitoring procedures:

Procedures for monitoring hazardous component concentrations in the air and procedures for air cleanliness check in a work place should be applied - if available and reasonable at a given position - pursuant to the relevant Polish or European Standards taking into account conditions prevailing in the place of exposure and appropriate methodology of measurement adopted to the working conditions. Mode, type and frequency of tests and measurements should meet the requirements included in the Regulation of the Ministry of Health of 2 February 2011 (Dz.U. No. 33, Item 166)

### 8.2 Exposure controls

Observe general safety and health protection rules. Do not eat, drink or smoke while working. Wash your hands thoroughly before a break and after finish of work. Avoid skin and eye contact. Provide general and/or local ventilation at a work place in order to maintain the hazardous agent concentration in the air below the set values of exposure limits.

Hand and body protection: it is recommended to use protective gloves made of e.g. perbutyl, viton, butyl rubber. For short-term contact use protective gloves with the protection index 2 or more (breakthrough time > 30 min). For long term contact use protective gloves with the protection index 6 (breakthrough time > 480 min). Use protective clothing

Material that is used for gloves must be impermeable and resistant to the product action. The material should be selected considering breakthrough times, permeation and degradation rate. In addition, the selection of appropriate gloves does not depend on the material only, but also on other qualitative features and changes depending on the manufacturer. Obtain information on the exact breakthrough time from the manufacturer and observe it.

Eye protection: use protective goggles if a risk of splash occurs.

Respiratory protection: not required if there is a proper ventilation. If vapours and aerosols are formed use absorbing or absorbing and filtering equipment with an adequate protection class (class 1/protection against gases or vapours with a volumetric concentration in the air not exceeding 0.1%; class 2/ protection against gases or vapours with a volumetric concentration in the air not exceeding 0.5%; class 3/ protection against gases or vapours with a volumetric concentration in the air up to 1%). If oxygen concentration is ≤ 17% and/or the maximum toxic substance concentration in the air is ≥1,0 % vol. isolating equipment should be applied.

Applied personal protections must meet requirements included in the Regulation of the Ministry of Economy of 28/12/2005 (Dz.U. No. 259, poz. 2173) and Directive 89/686/EC (as amended). The employer shall provide personal protection appropriate to the activities performed and meeting all quality requirements, including maintenance and cleaning.

Thermal hazards: do not occur.

#### Environmental exposure controls

Avoid discharges to the environment, do not dispose to drains. Possible emissions from ventilation systems and process equipment should be checked for their conformity with the environmental protection law requirements.

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<b>Section 9:                      Physical and chemical properties</b>
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**9.1 Information on basic physical and chemical properties**

state of mind / form: liquid

color: brown

aroma: characteristic for petroleum products

odor threshold: not determined

pH value: not determined

melting point / freezing point: not determined

initial boiling point and boiling range: not determined

flash point:  $\geq 210$  °C

evaporation Rate: not applicable

flammability (solid, gas): not determined

upper / lower explosive limit: not determined

vapor pressure: not determined

vapor density: not determined

density: not normalized

solubility: not soluble in water, soluble in solvents

organic and liquid hydrocarbons

n-octanol / water partition coefficient: not determined

auto-ignition temperature: not determined

decomposition temperature: not determined

explosive properties: not indicated

oxidizing properties: not applicable

kinematic viscosity (100 °C): 10,5-12,5 mm<sup>2</sup> /s

kinematic viscosity (40 °C): 57 - 78 mm<sup>2</sup> /s

# MATERIAL SAFETY DATA SHEET

Date of issue: 10.07.2019

Revision: 1.0/EN

## 9.2 Other information

Pour point temperature	-40°C
Viscosity index	160 min

## Section 10: Stability and reactivity

### 10.1 Reactivity

Reactive product. Does not undergo dangerous polymerisation. See also section 10.3 and 10.5.

### 10.2 Chemical stability

When used and stored correctly the product is stable.

### 10.3 Possibility of hazardous reactions

Hazardous reactions are unknown.

### 10.4 Conditions to avoid

Avoid direct sunlight, heat and ignition sources.

### 10.5 Incompatible materials

Avoid contact with strong oxidisers.

### 10.6 Hazardous decomposition products:

Unknown.

## Section 11: Toxicological information

### 11.1 Information on toxicological effects

Component toxicity

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based: [CAS: 72623-87-1]:

LD <sub>50</sub> (rat, oral)	> 2000 mg/kg
LD <sub>50</sub> (dermal, rabbit)	> 2000 mg/kg
LD <sub>50</sub> (rat, inhalation)	≥ 5,53 mg/l

Base oil unspecified: [CAS: 64742-54-7]:

LD <sub>50</sub> (rat, oral)	> 5000 mg/kg
LD <sub>50</sub> (dermal, rabbit)	> 5000 mg/kg
LD <sub>50</sub> (rat, inhalation)	5,53 mg/l

Bis(nonylphenyl)amine: [CAS: 36878-20-3]:

LD <sub>50</sub> (rat, oral)	> 5000 mg/kg
LD <sub>50</sub> (dermal, rabbit)	> 2000 mg/kg

Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts:[ CAS: 84605-29-8]

LD <sub>50</sub> (rat, oral)	3150 mg/kg
LD <sub>50</sub> (dermal, rabbit)	≥ 2000 mg/kg
LD <sub>50</sub> (rat, inhalation)	≥ 5 mg/l

Mixture toxicity

#### Acute toxicity

On the basis of available data, the classification criteria are not met.

#### Skin corrosion/irritation

On the basis of available data, the classification criteria are not met.

#### Serious eye damage/irritation

On the basis of available data, the classification criteria are not met.

# MATERIAL SAFETY DATA SHEET

Date of issue: 10.07.2019

Revision: 1.0/EN

## Respiratory or skin sensitisation

On the basis of available data, the classification criteria are not met.

## Germ cell mutagenicity

On the basis of available data, the classification criteria are not met.

## Carcinogenicity

On the basis of available data, the classification criteria are not met.

## Reproductive toxicity

On the basis of available data, the classification criteria are not met.

## STOT - single exposure

On the basis of available data, the classification criteria are not met.

## STOT - repeated exposure

On the basis of available data, the classification criteria are not met.

## Aspiration hazard

On the basis of available data, the classification criteria are not met.

## Section 12: Ecological information

### 12.1 Toxicity

#### Component toxicity

#### Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based: [CAS: 72623-87-1]:

Toxicity for fish LC<sub>50</sub>>100 mg/l/96h (Pimephales promelas)

#### Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts:[ CAS: 84605-29-8]:

Toxicity for daphnia EC<sub>50</sub>>23 mg/l/48h (Daphnia magna)

Toxicity for algae EC<sub>50</sub> 21 mg/l/96h (Desmodesmus subspicatus)

Toxicity for fish LC<sub>50</sub> 4,5 mg/l/96h (Oncorhynchus mykiss)

#### Bis(nonylphenyl)amine[CAS:36878-20-3]:

Toxicity for daphnia EC<sub>50</sub>>100 mg/l/48h (Daphnia magna)

Toxicity for algae EC<sub>50</sub> >100 mg/l/72h (Desmodesmus subspicatus)

Toxicity for fish LC<sub>50</sub>>100 mg/l/96h (Danio rerio)

#### Mixture toxicity

The product is Harmful to aquatic life with long-lasting effects.

### 12.2 Persistence and degradability

No data

### 12.3 Ability to bioaccumulate

No data for mixture.

#### Component data:

#### Bis(nonylphenyl)amine: [CAS: 36878-20-3]:

logP o/w > 7,6

#### Phosphorodithioic acid, mixed O,O-bis(1,3-dimethylbutyl and iso-Pr) esters, zinc salts:[ CAS: 84605-29-8]:

logP o/w 0,56



# MATERIAL SAFETY DATA SHEET

Date of issue: 10.07.2019

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## 12.4 Mobility in soil

Product spreads in the soil; It can penetrate deep into the soil and cause pollution groundwater. Mobility of the components of the mixture depends on their hydrophilic and hydrophobic properties and abiotic and biotic conditions of the soil, including its structure, climatic conditions and organisms soil, (mainly bacteria, fungi, algae, invertebrates).

## 12.5 Results of evaluation of PBT and vPvB properties

PBT and vPvB properties have not been evaluated

## 12.6 Other harmful effects

The mixture is not classified as posing a threat to the ozone layer. Consider the possibility other harmful effects of the individual components of the mixture on the environment (eg disturbance of the hormonal economy). Low volatility product. Hydrocarbons being components of a product exhibit a low tendency to penetrate into the atmosphere. Water insoluble. Is gathering on water surface forming a layer that hinders the oxygen exchange. High molecular weight hydrocarbons. They can sediment in water.

## Section 13: Disposal considerations

### 13.1 Waste treatment methods

Recommendations for the mixture: do not dispose into sewage. Utilize in accordance with the applicable regulations. The waste code should be assigned in the place of waste generation.

Recommendations for packaging waste: carry out recovery / recycling / disposal of packaging waste in accordance with the applicable regulations. Only fully emptied packaging may be intended for recycling.

Community legal acts: Directives of the European Parliament and of the Council: 2008/98/EC, 94/62/EC.

National legislation: Dz. U. 2013, Item 21, Dz.U. 2013 Item 888.

## Section 14: Transport information

### 14.1 UN number

Not applicable. The product is not classified as hazardous in transport.

### 14.2 UN proper shipping name

Not applicable.

### 14.3 Transport hazard class(es)

Not applicable.

### 14.4 Packing group

Not applicable.

### 14.5 Environmental hazards

Not applicable.

### 14.6 Special precautions for user

Not applicable.

### 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

## Section 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Act of 25 February 2011 on chemical substances and their mixtures (Dz.U. No. 63, Item 322, as amended).

Waste Act of 14 December 2012 (Dz.U. 2013, Item 21)

Act of 13 June 2013 on packaging and packaging waste management (Dz.U. 2013, Item 888)

Regulation of the Minister of Environment Protection of 9 December 2014 on waste catalogue (Dz.U. No. 2014, item 1923),

Regulation of the Minister of Economy of 21 December 2005 on essential requirements for personal protections (Dz.U. No. 259, item 2173).

# MATERIAL SAFETY DATA SHEET

Date of issue: 10.07.2019

Revision: 1.0/EN

Regulation of the Minister of Health of 2 February 2011 on testing and measurements of agents harmful to health in the work environment (Dz.U. No. 33, Item 166) as amended.

Government statement on coming into force of amendments to Annexes A and B to the European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)

1907/2006/EC Regulation concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/WE (as amended)

1272/2008/EC Regulation of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (as amended)

2008/98/EC Directive of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives

94/62/EC Directive of the European Parliament and of the Council of 20 December 1994 on packaging and packaging waste. Chemical safety assessment

15.2 Chemical safety assessment for the mixture is not required.

## Section 16: Other information

Full text of H statements from section 3 of the card

H304: May be fatal if swallowed and enters airways

H315: Causes skin irritation

H317: May cause an allergic skin reaction

H318: Causes serious eye damage

H411: Toxic to aquatic life with long-lasting effects

H413: May cause long lasting harmful effects to aquatic life

Abbreviations and acronyms

PBT	Persistent, bioaccumulative and toxic
vPvB	Very persistent and very bioaccumulative
TLV-TWA	Threshold limit value - time weighted average
TLV-STEL	Threshold limit value - short-term exposure limit
TLV-C	Threshold limit value - ceiling limit
BLV	Biological limit value

Training programs:

Before starting work with the product the user should learn occupational health and safety rules concerning handling chemicals, and in particular should undergo a relevant workplace training.

Additional information

The classification was performed with the calculation method on the basis of data on hazardous constituent content based on the guidelines of the Minister of Health of 10 August 2012 on criteria and method of classification of hazardous substances and their mixtures (Dz.U. 2012.1018) and Regulation 1272/2008/EC (CLP).

Date of issue: 10/07/2019

Revision: 1.0./EN

The above information has been created on the basis of currently available data characterizing the product and manufacturer's experience and knowledge on this area. It does not constitute the qualitative description of the product, or a promise of specific properties. It should be treated as an aid for safe handling in transport, storage and use of the product. It shall not release the user from any liability for improper use of the above information and from obeying any legal standards applicable in this area.

## CERTIFICATE OF ANALYSIS

Accreditation No: AZS ISO/IEC 17025:2020/AZ 01.0571.01.21

**From: ALCO LLC**  
3, Vali Mammadov st., Sabail dist.  
AZ1095, Baku, Azerbaijan

**Certificate No.:** 202301090  
**Date of issue:** 23/01/2023

**To: ARIDAN CENTER**  
Varnica str. 2/11  
Moldova, Chisinau

### Test sample

**Product:** MAXIMUM PREMIUM 15W40 SL/CF  
**Material ID:** M0000164  
**Date of sampling:** 23/01/2023

**Manufacture date:** 23/01/2023  
**Batch number:** 2301090  
**Tank ID:** T41.1

### Test result

**Date of analysis:** 23/01/2023

Parameters	Unit	Test result	Limit	Test method	Conclusion
Appearance	-	Bright & Clear	Bright & Clear	Visual	Pass
Kinematic viscosity at 100 °C	mm <sup>2</sup> /s	14.34	12.5-16.3	ASTM D445	Pass
Viscosity index	-	149	Min. 125	ASTM D2270	Pass
Water content	%	None	Max 0.05	ASTM D95	Pass
Flash Point, COC	°C	226	Min. 210	ASTM D92	Pass
Pour Point	°C	-30	Max. -30	ASTM D97	Pass
Color	-	3.0	Test & Report	ASTM D1500	Pass
Density at 20 °C	g/cm <sup>3</sup>	0.8791	Test & Report	ASTM D4052	Pass

**Shelf life:** 5 years from the date of manufacture of the product if proper storage conditions are followed.

This product meets the specification set out in its product data sheet (PDS) and has been manufactured in a facility fully complying with the requirements of Integrated Management System standards.

**Notes & Instructions:**

- Tests conducted according to International Standard Test Methods are routinely verified to be in compliance with the latest published versions. Minor changes may be made where they have no material impact on test results and are necessitated by reasons such as safety, environmental standards and method effectiveness.
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**Authorised singnatory**



**Matilda Yusifova**  
**Head of Laboratory**





ALCO QUALITY ASSURANCE LABORATORY  
TEST REPORT

Accreditation No: AZS ISO/IEC 17025:2020/AZ 01.0571.01.21



**Company:** ALCO LLC  
3, Vali Mammadov st., Sabail dist.  
AZ1095, Baku, Azerbaijan

**Certificate No.:** 202496  
**Date of issue:** 25/01/2024

**Test sample**

**Product:** MAXIMUM M-10DM 30 CD  
**Batch number:** 2401096  
**Tank ID:** T41.2

**Manufacture date:** 22/01/2024  
**Date of sampling:** 22/01/2024  
**Date of analysis:** 22/01/2024

**Test result**

Parameters	Unit	Test method	Limit	Test result	Conclusion
Appearance	-	Visual	Bright & Clear	Bright & Clear	Pass
Kinematic viscosity at 100 °C, min.	mm <sup>2</sup> /s	ASTM D445	Min. 11.40	12.68	Pass
Viscosity index	-	ASTM D2270	Min. 90	111	Pass
Water content	%	ASTM D95	Max. 0.05	None	Pass
Flash Point, COC	°C	ASTM D92	Min. 220	254	Pass
Pour Point	°C	ASTM D97	Max. -18	-21	Pass
Color, with a dilution of 15:85, units of the CNT	-	ГОСТ 20284	Max. 3.5	0.7	Pass
Density at 20 °C	g/cm <sup>3</sup>	ASTM D4052	Test & Report	0.8851	Pass

ALCO QUALITY ASSURANCE LABORATORY accredited by AzAK for AZS ISO/IEC 17025:2020 at test laboratory.

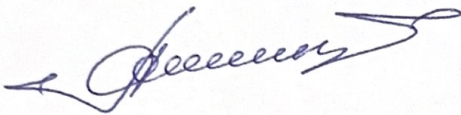
**Shelf life:** 5 years from the date of manufacture of the product if proper storage conditions are followed.

This product meets the specification set out in its product data sheet (PDS) and has been manufactured in a facility fully complying with the requirements of Integrated Management System standards.

**Notes & Instructions:**

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**Authorised singnatory**



Allahverdiyeva Aytan  
Head of Laboratory



Isgandarli Nazrin  
Chemical Engineer





# XTC 5W40

## DESCRIPTION

High performance synthetic oil for petrol and diesel engines dated from 2000 and later. It is suitable for turbo-charged or not, multivalve and diesel direct injection engines.

## APPLICATION

**Bardahl XTC 5w40** can be used all year long and in the most difficult operating conditions. It is compatible with catalytic converters and recommended for diesel direct injection (TDI, Common rail, HDI). **Approved by Mercedes-Benz.**

## SPECIFICATIONS

This product offers the following performance level:

ACEA	A3 B4
API	SN / CF
VW	<b>Approval under VW Standard 502.00 and 505.00</b>
MB	<b>MB Approval 229.5 / 229.3 / 226.5</b>
Porsche	A40
BMW	Longlife-01
GM	LL-B-025
PSA	B71 2296
RENAULT	RN0700/RN0710

## PROPERTIES

- ✓ Offers a stable viscosity,
- ✓ Provides an excellent resistance against shearing,
- ✓ Makes cold starting easier,
- ✓ Offers a good resistance against oxidation and wear.





## TECHNICAL DATA

Density at 20°C	Kg/l	0,852
Viscosity at -30°C	mPa.s	5410
Viscosity at 40°C	mm <sup>2</sup> /s	85
Viscosity at 100°C	mm <sup>2</sup> /s	14,6
Viscosity index		175
Flash point COC, °C	°C	223
Pour point, °C	°C	-42
TBN	mgKOH/g	10,4
Sulfated ash contents	%	1,2

The information contained in this sheet is provided for reference only. Because of continual product development, changes may occur without prior notice. No liability for damages caused by the incompleteness or incorrectness will be accepted.

## RECOMMENDATIONS

**Handling:** any safety information related to the handling and use of this product are gathered in the Safety Data Sheet.

Always check the manufacturer car manual before use.

**Storage :** it is recommended to use the product within 60 months. It should be stored in its original packaging, closed, and protected from light, humidity and excessive temperature.

## REFERENCES & AVAILABILITIES

36161	12 x 1 L
36162	4 x 4 L
36163	3 x 5 L
36168	20 L
36164	60 L
36167	205 L



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[www.bardahlois.com](http://www.bardahlois.com)





# XTEC 5W30 C3

## DESCRIPTION

Synthetic engine oil with low ash content, "Fuel economy" formulated from last generation additives and specially developed for vehicles equipped with a particle filter (DPF), conforming to the EURO IV et EURO V norms.

## APPLICATION

**Bardahl XTEC 5w30 C3** has been developed according to the Mid S.A.P.S/low HTHS technology. It is a very high performance and low viscosity lubricant, formulated to reduce fuel consumption and exhaust emissions. Particularly recommended for last generation BMW, MERCEDES, PORSCHE, VW, AUDI, SEAT, SKODA, petrol or diesel engines, requiring an ACEA C3 engine oil performance level.

## SPECIFICATIONS

This product offers the following performance level:

ACEA	C3
API	SP
BMW	Longlife -04
PORSCHE	C30
OPEL	OV0401547
MERCEDES-BENZ	229.31/229.52 et MB-Approval 229.51
VW	Approved under VW Standard 504.00 and 507.00

## PROPERTIES

- ✓ Avoids fuel overconsumption,
- ✓ Compatible with modern catalytic converters,
- ✓ Forms a lubricating film protecting the engine at high temperature,
- ✓ Extends the drain intervals,
- ✓ Offers excellent dispersion and detergency properties,
- ✓ Makes cold starting easier,
- ✓ Offers an excellent resistance against shearing,
- ✓ Provides a high protection against corrosion, wear and the formation of foam.



## TECHNICAL DATA

Density at 15°C	Kg/l	0,851
Viscosity at -35°C	mPa.s	5950
Viscosity at 40°C	mm <sup>2</sup> /s	69,2
Viscosity at 100°C	mm <sup>2</sup> /s	12,00
Viscosity Index		171
Flash point COC, °C	°C	230
Pour point, °C	°C	-42
TBN alcalinity	mgKOH/g	6,7
Sulphated ash contents	%	0,67

The information contained in this sheet is provided for reference only. Because of continual product development, changes may occur without prior notice. No liability for damages caused by the incompleteness or incorrectness will be accepted.

## RECOMMENDATIONS

**Handling :** any safety information related to the handling and use of this product are gathered in the Safety Data Sheet.

Always check the manufacturer car manual before use.

**Storage :** it is recommended to use the product within 60 months. It should be stored in its original packaging, closed, and protected from light, humidity and excessive temperature.

## REFERENCES & AVAILABILITIES

36301	12 x 1 L
36302	4 x 4 L
36303	3 x 5 L
36308	20 L
36304	60 L
36309	205 L



# XTS 5W30

## DESCRIPTION

Fully synthetic engine oil formulated with last generation performance additives to reduce friction, eliminate sludge and optimize fuel consumption. Offers a good general protection of the engine.

## APPLICATION

**Bardahl XTS 5w30** has been specially formulated to lubricate petrol and diesel engines, equipped or not with a turbo, of passenger cars and delivery vans. It is particularly suitable for modern FORD engines but also meets the requirements of the former M2C 913-A, B and C specification levels.

## SPECIFICATIONS

This product offers the following performance level:

ACEA	A5/B5
API	SL/CF
FORD	WSS-M2C 913-D
RENAULT	RN0700
JAGUAR - LAND ROVER	STJLR.03.5003

## PROPERTIES

- ✓ Avoids fuel over-consumption,
- ✓ Offers a stable viscosity and a high viscosity index,
- ✓ Provides an excellent resistance against « shearing »,
- ✓ Is highly resistant against oxidation,
- ✓ Offers excellent dispersion and detergency properties,
- ✓ Forms a lubricating film at high temperature,
- ✓ Makes cold start easier,
- ✓ Contains strong anti-corrosion, anti-wear and anti-foam additives.



## TECHNICAL DATA

Density at 15°C	Kg/l	0,845
Viscosity at -35°C	mPa.s	3890
Viscosity at 40°C	mm <sup>2</sup> /s	54,5
Viscosity at 100°C	mm <sup>2</sup> /s	9,9
Viscosity Index		170
Flash point COC, °C	°C	220
Pour point, °C	°C	-39
TBN Alcalinity	mgKOH/g	10,1
Sulphated Ash contents	%	1,09

The information contained in this sheet is provided for reference only. Because of continual product development, changes may occur without prior notice. No liability for damages caused by the incompleteness or incorrectness will be accepted.

## RECOMMENDATIONS

**Handling :** any safety information related to the handling and use of this product are gathered in the Safety Data Sheet.

Always check the manufacturer car manual before use.

**Storage :** it is recommended to use the product within 60 months. It should be stored in its original packaging, closed, and protected from light, humidity and excessive temperature.

## REFERENCES & AVAILABILITIES

36541	12 x 1 L
36542	4 x 4 L
36543	3 x 5 L
36548	1 x 20 L
36544	1 x 60 L
36547	1 x 205 L

## CERTIFICATE OF ANALYSIS

Accreditation No: AZS ISO/IEC 17025:2020/AZ 01.0571.01.21

**From: ALCO LLC**  
3, Vali Mammadov st., Sabail dist.  
AZ1095, Baku, Azerbaijan

**Certificate No.:** 2023121989  
**Date of issue:** 08/122023

### Test sample

**Product:** MAXIMUM TURBO MAX 10W40 CI-4/SL  
**Material ID:** M0000150  
**Date of sampling:** 08/12/2023

**Manufacture date:** 08/12/2023  
**Batch number:** 23111842  
**Tank ID:** T41.1

### Test result

**Date of analysis:** 08/12/2023

Parameters	Unit	Test result	Limit	Test method	Conclusion
Appearance	-	Bright & Clear	Bright & Clear	Visual	Pass
Kinematic viscosity at 100 °C	mm <sup>2</sup> /s	14.49	12.5-16.3	ASTM D445	Pass
Viscosity index	-	145	Min. 125	ASTM D2270	Pass
Water content	%	None	Max. 0.05	ASTM D95	Pass
Flash Point, COC	°C	230	Min. 210	ASTM D92	Pass
Pour Point	°C	-35	Max. -35	ASTM D97	Pass
Color	-	2.0	Test & Report	ASTM D1500	Pass
Density at 20 °C	g/cm <sup>3</sup>	0.87	Test & Report	ASTM D4052	Pass

**Shelf life:** 5 years from the date of manufacture of the product if proper storage conditions are followed.

This product meets the specification set out in its product data sheet (PDS) and has been manufactured in a facility fully complying with the requirements of Integrated Management System standards.

**Notes & Instructions:**

- Tests conducted according to International Standard Test Methods are routinely verified to be in compliance with the latest published versions. Minor changes may be made where they have no material impact on test results and are necessitated by reasons such as safety, environmental standards and method effectiveness.
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**Authorised singnatory**



**Matilda Yusifova  
Technologist**



## CERTIFICATE OF ANALYSIS

Accreditation No: AZS ISO/IEC 17025:2020/AZ 01.0571.01.21

**From: ALCO LLC**  
3, Vali Mammadov st., Sabail dist.  
AZ1095, Baku, Azerbaijan

**Certificate No.:** 2023111843  
**Date of issue:** 15/11/2023

### Test sample

**Product:** MAXIMUM TURBO MAX 15W40 CI-4/SL  
**Material ID:** M0000164  
**Date of sampling:** 15/11/2023

**Manufacture date:** 15/11/2023  
**Batch number:** 23111843  
**Tank ID:** T41.3

### Test result

**Date of analysis:** 15/11/2023

Parameters	Unit	Test result	Limit	Test method	Conclusion
Appearance	-	Bright & Clear	Bright & Clear	Visual	Pass
Kinematic viscosity at 100 °C	mm <sup>2</sup> /s	14.37	12.5-16.3	ASTM D445	Pass
Viscosity index	-	134	Min. 125	ASTM D2270	Pass
Water content	%	None	Max 0.05	ASTM D95	Pass
Flash Point, COC	°C	230	Min. 210	ASTM D92	Pass
Pour Point	°C	-35	Max. -35	ASTM D97	Pass
Color	-	2.4	Test & Report	ASTM D1500	Pass
Density at 20 °C	g/cm <sup>3</sup>	0.8790	Test & Report	ASTM D4052	Pass

**Shelf life:** 5 years from the date of manufacture of the product if proper storage conditions are followed.

This product meets the specification set out in its product data sheet (PDS) and has been manufactured in a facility fully complying with the requirements of Integrated Management System standards.

**Notes & Instructions:**

- Tests conducted according to International Standard Test Methods are routinely verified to be in compliance with the latest published versions. Minor changes may be made where they have no material impact on test results and are necessitated by reasons such as safety, environmental standards and method effectiveness.
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**Authorised signatory**



**Matilda Yusifova**  
**Technologist**





## CERTIFICATE OF ANALYSIS

Accreditation No: AZS ISO/IEC 17025:2020/AZ 01.0571.01.21

**From: ALCO LLC**  
3, Vali Mammadov st., Sabail dist.  
AZ1095, Baku, Azerbaijan

**Certificate No.: 2023122031**  
**Date of issue: 13/12/2023**

### Test sample

**Product:** MAXIMUM M10G2K 30 CC  
**Material ID:** M00056  
**Date of sampling:** 13/12/2023

**Manufacture date:** 13/12/2023  
**Batch number:** 23122031  
**Tank ID:** T41.1

### Test result

**Date of analysis:** 13/12/2023

Parameters	Unit	Test result	Limit	Test method	Conclusion
Appearance	-	Bright & Clear	Bright & Clear	Visual	Pass
Kinematic viscosity at 100 °C, min.	mm <sup>2</sup> /s	10.92	10.5-11.5	ASTM D445	Pass
Viscosity index	-	93	Min. 85	ASTM D2270	Pass
Water content	%	None	Max. 0.05	ASTM D95	Pass
Flash Point, COC	°C	254	Min. 210	ASTM D92	Pass
Pour Point	°C	-18	Max. -15	ASTM D97	Pass
Color, with a dilution of 15:85, units of the CNT	-	0.5	Max. 4.0	ГОСТ 20284	Pass
Density at 20 °C	g/cm <sup>3</sup>	0.8880	Max. 0.905	ASTM D4052	Pass

**Shelf life:** 5 years from the date of manufacture of the product if proper storage conditions are followed.

This product meets the specification set out in its product data sheet (PDS) and has been manufactured in a facility fully complying with the requirements of Integrated Management System standards.

**Notes & Instructions:**

- Tests conducted according to International Standard Test Methods are routinely verified to be in compliance with the latest published versions. Minor changes may be made where they have no material impact on test results and are necessitated by reasons such as safety, environmental standards and method effectiveness.
- This certificate is only valid in its entirety.
- This certificate shall not be reproduced except in full, without the written approval of the laboratory.

**Authorised singnatory**



**Matilda Yusifova  
Technologist**



## CERTIFICATE OF ANALYSIS

Accreditation No: AZS ISO/IEC 17025:2020/AZ 01.0571.01.21

**From: ALCO LLC**  
3, Vali Mammadov st., Sabail dist.  
AZ1095, Baku, Azerbaijan

**Certificate No.:** 20230122011  
**Date of issue:** 07/12/2023

### Test sample

**Product:** MAXIMUM TAD 17  
(85W90 GL-5)  
**Material ID:** M000269  
**Date of sampling:** 07/12/2023

**Manufacture date:** 07/12/2023  
**Batch number:** 23122011  
**Tank ID:** T41.2

### Test result

**Date of analysis:** 22/08/2023

Parameters	Unit	Test result	Limit	Test method	Conclusion
Appearance	-	Bright & Clear	Bright & Clear	Visual	Pass
Kinematic viscosity at 100 °C	mm <sup>2</sup> /s	18.68	Min. 17.50	ASTM D445	Pass
Viscosity index	-	95	Min. 95	ASTM D2270	Pass
Water content	%	None	Max. 0.05	ASTM D95	Pass
Flash Point, COC	°C	234	Min. 200	ASTM D92	Pass
Pour Point	°C	-30	Max. -30	ASTM D97	Pass
Density at 20 °C	g/cm <sup>3</sup>	0.8935	Test & Report	ASTM D4052	Pass

**Shelf life:** 5 years from the date of manufacture of the product if proper storage conditions are followed.

This product meets the specification set out in its product data sheet (PDS) and has been manufactured in a facility fully complying with the requirements of Integrated Management System standards.

**Notes & Instructions:**

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**Authorised signatory**



**Matilda Yusifova  
Technologist**



"ALCO" LLC

"ALCO" Limited Liability Company

Full owner of "AMINOL" lubricants factory located in "Sumgait Chemical Industrial Park" (SCIP)

QUALITY CERTIFICATE № 2022111150

**MAXIMUM PREMIUM 10W40 SL/CF**

Batch №: 22111150

Tank №: T41.4

No	Parameter	Test Method	Limit	Result
1	Appearance	Visual	Bright & Clear	Bright & Clear
2	Kinematic viscosity at 100°C, mm <sup>2</sup> /s	ASTM D 445	12,5-16,3	13,94
3	Viscosity index, min	ASTM D 2270	125	145
4	Water contents , %, max	ГОСТ 2477	None	None
5	Flash Point, COC, °C, min	ASTM D 92	210	234
6	Pour Point, °C, max	ASTM D97	-35	-35
7	Color	ASTM D 1500	Test & Report	2,5
8	Density at 20°C, g/cm <sup>3</sup>	ASTM D4052	Test & Report	0,8751

\* The product meets all technical specifications.

Date: 18.11.2022

Head of Laboratory



Yusiphova Mathilda