

YUKO

LUBRICANTS



OILS & GREASES

IN MORE THAN **4 000 000** ENGINES OF UKRAINE



Lubricating Europe

Technical Oils Plant «JV YUKOIL» is the member of the European Union of Independent Manufacturers of lubricants (www.ueil.org).

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YUKO.EU

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PVL

**PASSENGER VEHICLE
LUBRICANTS**

CVL

**COMMERCIAL VEHICLE
LUBRICANTS**

IND

INDUSTRIAL LUBRICANTS

GRS

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YUKO TRADEMARK

YUKO name is referred to the advanced motor and industrial oils, greases, lubricating coolants and service products meeting requirements of the international quality standards.

Range of YUKO products includes upward of 200 items of lubricating materials for private and commercial vehicles, various fixed installations, industrial and domestic applications.

The customers of YUKO oils and lubricants refer to B2B, B2C and B2G segments and major branches of economy including such industries as mining, iron and steel, machine-building, agricultural, chemical, transportation equipment and others.

YUKO lubricating materials are available in many national and regional sales channels, car and truck shops, service stations, fuel filling stations, vehicle markets, online shops.

YUKO lubricants are already exported to more than 30 countries all over the world getting favorable references at the foreign markets. Among our partners are distribution companies and industrial enterprises locating in Europe, Asia, Africa and CIS.

Our sales departments do their best to make YUKO lubricants available for every prospective consumer in each corner of the world.

Technical Oils Plant "JV Yukoil" manufacturing YUKO lubricants is located in the southeast of Ukraine and it is rightfully considered as an innovative leader in the Ukrainian market.

Our company is a member of UEIL (European Union of Independent Lubricant) and the only API (American Petroleum Institute) licensed manufacturer in Ukraine.

YUKO engine oils are certified and approved by major global producers of vehicles like Mercedes-Benz, Renault, Volvo, Caterpillar, Cummins and others.

The company has established its quality management system in accordance to the international standards and certified against ISO 9001:2008.

YUKO oils and greases meet national quality standards that are evidenced by UkrSEPRO Conformity Certificates.

To make sure that products meet the requirements of European standards there is an additional conformance audit of the products executed by SGS, the independent world's leading inspection company.



We pay attention to protection of our products against forgery. In this regard we implemented a number of pioneering packing and marking technologies previously not used by the Ukrainian manufacturers. Our products are protected by an induction sealed bottles, an easy-open caps, laser marks, multi-page labels and other up-to-date technologies providing safety and serviceability.

YUKO offers the broadest choices of packages among lubricant producers in the Eastern Europe. To make our products easy-to-use for our consumers and partners we developed and implemented the unique packaging technologies having no usage history in Ukraine.

YUKO trademark grows rapidly providing high quality marketing and technical support to our partners.

YUKO lubricating materials are regularly exhibited in various motor shows and specialized exhibitions all over

the world attracting a consumer interest to our products and Ukraine in a whole as a state having great export potential.

YUKO trademark slogan “Lubricating Europe” meaning “Oiling European mechanisms” reflects our desire to become integrated in the European lubricants market through the implementation of the highest professional standards.



PRODUCTION

Technical Oil Plant “JV Yukoil” has been built with participation of German partners in Zaporizhia in the South-East of Ukraine.

The plant was constructed in compliance with the strict environmental standards for such facilities in the European Union. Nowadays the Plant is one of the most-up-to-date manufacturing plants in the Eastern Europe operating in the relative industry.



The manufacturing premises of the plant are equipped with the modern equipment in the area of 10,000 sq.m.

The industrial process is automated to the full and provides consistent high quality products meeting the European standards.

The range of family lubricants of YUKO brand includes the product list of more than 200 items of oils, greases, lubricating coolants and other technical and service fluids.

Note: if the YUKO oils could be used within the bounds of Ukraine, the production volume would be enough for every second vehicle in Ukraine.

Industrial Oil Production Plant JV “Yukoil” manufactures not only production-line oils and greases but also offers almost unlimited opportunities to produce exclusive lubricant materials with the customized parameters.

Professionals involved in the production processes have wide experience in development and production

of the customized lubricants ensuring the shortest terms of delivery to the customers.

The researching lab of the plant being the most advanced laboratory in Ukraine is certified by State Committee for Standardization and Metrology. Every day the laboratory makes in-depth analysis of the incoming raw materials as well as oils and greases at all stages of the industrial process securing high quality of the lubricant materials produced under the YUKO trademark.

The environmental safety is one of the priority investment patterns of the company. The investments made in the state-of-the-art technologies for treatment and filtration serve as an example of struggle for security and purity of environment for many enterprises.

Through the implementation of the environmental protection technologies and measures to the production process the plant succeeded to blend into the local ecological system, not to affect development of fruit farming and forest nursery bordering on the plant territories.



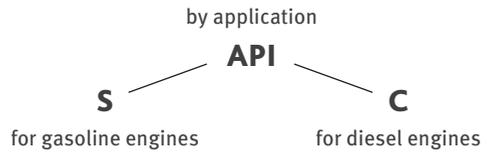
OILS AND GREASES CLASSIFICATION

ENGINE OIL



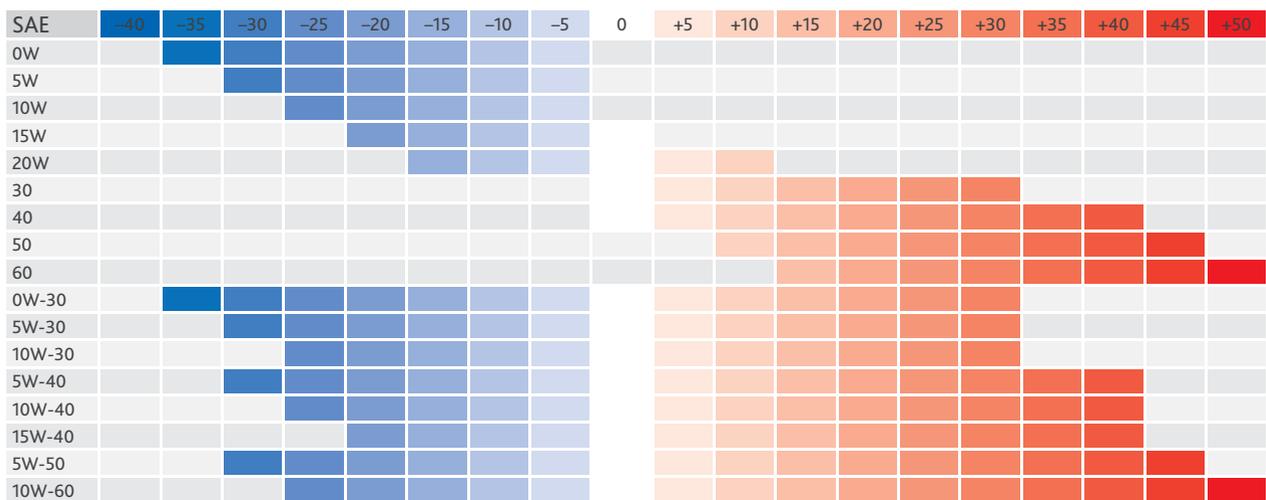
SAE stands for the Society of Automotive Engineers has established system for grading engine oils according to their viscosity

API stands for the American Petroleum Institute classifies engine oils by application and performance properties level.



For example: SL/CF — multi-grade engine oil for gasoline engines allowed application of SL oil. It is allowed to use in the gasoline engines built before 2004. It is suitable for use in diesel engines allowed application of CF oil (i.e. engines built before 1994).

CORRELATION OF THE RECOMMENDED OPERATING TEMPERATURE RANGE AND VISCOSITY CLASS IS IN ACCORDANCE WITH SAE J300 STANDARD



For example: SAE 10W-40 – minimum recommended temperature for engine start is –25°C, maximum recommended temperature for engine operation is – up to +40°C.

FOR GASOLINE ENGINES

API	For vehicles*	For vehicles produced in CIS *
SN	the most-up-to-date level of quality	designed after 2007
SM	designed in 2010 or earlier	
SL	designed in 2004 or earlier	
SJ	designed in 2001 or earlier	designed in 2007 or earlier
SH	designed in 1996 or earlier	designed in 2005 or earlier
SG	designed in 1993 or earlier	
SF	designed in 1988 or earlier	designed in 2000 or earlier

FOR DIESEL ENGINES

API	For vehicles *	For vehicles produced in CIS *
CJ-4	after 2007	with engines Euro-3, starting from 2008 production year
CI-4	2002–2007	
CH-4	1998–2002	
CG-4	1995–1998	with engines Euro -2, 2006 – 2008 production years
CF-4	1990–1995	
CF	1990–1994	
CE	1985–1990	with Turbo engine Euro-1 and Euro -0
CD	1965–1985	
CC	1961–1965	with non-turbo engines
CB	1949–1961	the useful life is over 20 years
CA	1950–1960	

* year of engine design

TRANSMISSION OILS

Viscosity grade as per SAE	70W	75W	80W	85W
Engine start minimum temperature, °C	-55	-40	-26	-12

Viscosity grade as per SAE	80	85	90	110	140	190	250
Recommended operating temperature, °C	+20	+30	+40	+45	+50	+55	+60

For example: 75W-90 – minimum recommended temperature for engine start is -40 C, maximum recommended temperature for engine operation is – up to +40°C



API	Application
GL-5	For hypoid gearbox and severe operation conditions. With wear-preventive and EP additives. It is not usually used for manual synchromesh nonferrous gearboxes.
GL-4	For manual gearbox and ordinary transmission, in severe conditions. Limited use is possible for hypoid gearbox for light operating conditions.
GL-3	For manual gearbox and transmission for light and medium operating conditions.
GL-2	For car open and enclosed, toothed and worm gears, devices и units.
GL-1	Plain oils for manual gearboxes.

GREASE LUBRICANT



NLGI National Lubricating Grease Institute categorizes greases according to their penetration (hardness level).

STANDARD CLASSIFICATION FOR GREASES

ACCORDING TO BODYING AGENT (BASIC ION):

- calciferous grease
- sodium grease
- calciferous sodium grease
- complex grease
- lithium grease
- hydrocarbon grease
- other greases

ACCORDING TO APPLICATION:

- multi-grade
- specialized

GREASE MAIN PROPERTIES:

- Penetration (body (NLGI grade));
- melting point;
- lubricating property (wear-reducing, EP quality);
- protective (corrosion resistance);
- water resistance (adhesion characteristics);
- effective viscosity;
- mechanical stability.

CONSISTENCY NUMBERS (AS PER NLGI)

NLGI grade	Penetration number (0.1 mm)	Appearance	Field of application
000	445–475	Very liquid	enclosed tooth gear , centralized lubrication system
00	400–430	Liquid	
0	355–385	Semi-liquid	centralized lubrication system
1	310–340	Very soft	
2	265–295	Soft	ball/roller bearings
3	220–250	Semi-solid	high speed bearing
4	175–205	Solid	
5	130–160	Very solid	open tooth gear
6	85–115	Extremely solid	



PASSENGER
VEHICLE
LUBRICANTS



MOTOR OILS FOR PASSANGER TRANSPORT	12
<hr/>	
TRANSMISSION OILS FOR PASSANGER TRANSPORT	18
<hr/>	
OILS FOR SMALL MACHINERY (MOTO)	20
<hr/>	
OILS FOR SMALL MACHINERY (GARDEN)	22

SYNTHETIC 5W-40

Synthetic High-Tech motor oil



SPECIFICATIONS

SAE 5W-40; API SM/CF; ACEA A3/B3/B4

COMPLIANCE

VW 502.0/505.00; MB 229.3; BMW LL-01;
OPEL GM-LL-025

ENABLED PACKING

1L 4L 200L

TEMPERATURE RANGE



Intended for modern gasoline and diesel engines of passenger cars and vans.

Produced of high-quality foreign synthetic base oils with additives, providing high performance of engine within a wide temperature range and extending its service life.

Provides increased safety level as compared to mineral and semi-synthetic oils.

Special low-ash formula. Has an extended drain interval. Compatible with injector and multivalve engines, including turbocharged, with intercooler and catalyst.

BENEFITS

- Provides a reliable engine protection under various conditions incl. extreme operating mode;
- Optimum for the use both in urban cycle and cross-country conditions;
- Due to its fluidity reduces fuel consumption;
- Significantly extends engine service life due to multipurpose additives package content, with excellent low temperature, antifric-tion, anticorrosion, detergent and antioxidizing properties;
- Maintains effectiveness for maximum long period, which allows to extend significantly oil drain intervals;
- Due to superior viscosity/temperature properties provides safe engine start at low temperatures in winter, including the regions with harsh weather conditions in winter;
- Conforms to modern requirements of world leaders in equipment manufacture concerning oil consumption, volatility, energy saving;
- Produced using the technology and under control of LUBRIZOL® corporation – the world leader in the field of lubricant components manufacture.

TYPICAL CHARACTERISTICS

Kinematic viscosity at 100°C, mm ² /s	14,0
Density at 20°C, kg/m ³	860
Viscosity index	160
Alkalinity, mg KOH/g	9,00
Flash point in open crucible, °C	220
Pour point, °C	-38

PVL

CVL

IND

GRS

SERVICE

SEMISYNTHETIC 10W-40

Semi-synthetic premium motor oil



SPECIFICATIONS

SAE 10W-40; API SL/CF; ACEA A3/B3/B4

COMPLIANCE

MB 229.3; VW 501.00/VW 505.00;
PSA E/D-02 LEVEL 2

ENABLED PACKING

1L 4L 5L 20L 200L

TEMPERATURE RANGE



Intended for modern gasoline and diesel engines of passenger cars and vans (injector, multivalve, turbocharged, including fitted with exhaust fumes catalyts). It is an optimum choice for vast majority of foreign passenger cars and vans. Produced of high-quality base oils with well-balanced additives package, providing good antifricition, anticorrosion, detergent and antioxidizing properties.

BENEFITS

- Consistently high performance in various operating modes;
- Easy cold start in winter;
- Prevents high and low temperature deposits formation in the engine;
- High-class performance properties allows using Yuko Semisynthetic 10W-40 in the engines of most modern cars;
- Compatible with all engine sealings;
- A wide range of packaging meets the requirements of any equipment;
- All packing types have several levels of counterfeit protection;
- Motor oil SEMISYNTHETIC 10W-40 is the finalist of “100 best goods of Ukraine” competition;
- Produced using the technology of LUBRIZOL® Corporation – the world leader in the field of lubricant components manufacture.

TYPICAL CHARACTERISTICS

Kinematic viscosity at 100°C, mm ² /s	14,5
Density at 20°C, kg/m ³	880
Viscosity index	150
Alkalinity, mg KOH/g	10,5
Flash point in open crucible, °C	210
Pour point, °C	-32

VEGA SYNT 10W-40

Semi-synthetic high-quality hydrocracking (HC) motor oil



SPECIFICATIONS

SAE 10W-40; API SG/CD; ACEA A2/B2

COMPLIANCE

MB 229.1; VW 501.00

ENABLED PACKING

1L 4L 5L 20L 200L

TEMPERATURE RANGE



Intended for gasoline and diesel engines of passenger cars and vans (injector, multivalve, turbocharged, including fitted with exhaust fumes catalyts).

Produced according to hydrocracking technology of high-quality base oils with active additives package providing stable performance. Effectively prevents carbon and lacquer formation.

BENEFITS

- Reliable engine lubrication at any temperatures;
- Easy cold start at sub-zero temperatures;
- Due to the high content of synthetic components the oil provides improved engine cleanliness;
- No high and low temperature deposits in the engine;
- Low volatility at high operating temperatures;
- A wide range of packaging meets the requirements of any equipment;
- All packing types have several levels of counterfeit protection;
- Produced using the technology of LUBRIZOL® Corporation – the world leader in the field of lubricant components manufacture.

TYPICAL CHARACTERISTICS

Kinematic viscosity at 100°C, mm ² /s	14,2
Density at 20°C, kg/m ³	881
Viscosity index	150
Alkalinity, mg KOH/g	8,0
Flash point in open crucible, °C	224
Pour point, °C	-32

PVL

CVL

IND

GRS

SERVICE

DYNAMIC 10W-40

Universal motor oil with high content of synthetic components

- 1L
- 4L
- 5L
- 200L



Intended for gasoline and diesel engines of passenger cars, vans and light trucks according to manufacturers' instructions.

Produced of high-quality base oils with improved additives package containing synthetic components, providing high performance.

SPECIFICATIONS	
SAE 10W-40, API SF/CC	

TYPICAL CHARACTERISTICS	
Kinematic viscosity at 100°C, mm ² /s	13,7
Viscosity index	145
Alkalinity, mg KOH/g	5,5
Flash point in open crucible, °C	220
Pour point, °C	-32

BENEFITS

- Good anti-wear, antioxidant and dispersing performance;
- Increased engine cleanliness due to the high content of synthetic components;
- Easy cold start in winter;
- A wide range of packaging meets the requirements of any equipment;
- All packing types have several levels of counterfeit protection;
- Produced using the technology of LUBRIZOL® Corporation – the world leader in the field of lubricant components manufacture.

CLASSIC 15W-40

Universal all-season motor oil based on mineral oil

- 1L
- 4L
- 5L
- 20L
- 200L



Intended for gasoline and diesel engines of passenger cars, vans and light trucks according to manufacturers' instructions.

Produced of high-quality mineral base oils with modern additives package providing trouble-free operation of the engine.

SPECIFICATIONS	
SAE 15W-40; API SF/CC	

TYPICAL CHARACTERISTICS	
Kinematic viscosity at 100°C, mm ² /s	14,5
Density at 20°C, kg/m ³	890
Viscosity index	120
Alkalinity, mg KOH/g	5,0
Flash point in open crucible, °C	220
Pour point, °C	-27

BENEFITS

- Oil flexibility allows to use it for all gasoline and diesel engines of passenger cars manufactured before 2001;
- Compatible with all engine sealings;
- A wide range of packaging meets the requirements of any equipment;
- All packing types have several levels of counterfeit protection;
- Produced using the technology of LUBRIZOL® Corporation – the world leader in the field of lubricant components manufacture.

PRAKTIK 20W-50

All-season mineral high viscosity motor oil

- 1L
- 5L
- 200L



Intended for gasoline and diesel engines of passenger cars, vans, and light trucks according to manufacturers' instructions in temperate and hot environment.

Produced of high-quality base oils and selected additives package providing trouble-free operation especially in hot environment and under high loads.

SPECIFICATIONS	
SAE 20W-50; API SF/CC	

TYPICAL CHARACTERISTICS	
Kinematic viscosity at 100°C, mm ² /s	17,5
Density at 20°C, kg/m ³	890
Viscosity index	120
Alkalinity, mg KOH/g	6,0
Flash point in open crucible, °C	225
Pour point, °C	-25

BENEFITS

- Guaranteed engine protection during operation under high temperature;
- Consistently high viscosity rating over extended operating time of the engine oil;
- Wear and noise level reduction;
- Contains antismoke additive;
- A wide range of packaging meets the requirements of any equipment;
- All packing types have several levels of counterfeit protection;
- Produced using the technology of LUBRIZOL® Corporation – the world leader in the field of lubricant components manufacture.

FLUSHING OIL

Flushing oil for gasoline and diesel engines

- 4L
- 200L



Intended for effective removal of sludge, low- and high-temperature deposits from engine lubricating systems. Cleans and prevents clogging of oil channels.

TYPICAL CHARACTERISTICS	
Kinematic viscosity at 40°C, mm ² /s	35
Density at 20°C, kg/m ³	878
Alkalinity, mg KOH/g	1,8
Flash point, °C	210
Pour point, °C	-16

BENEFITS

- Has good detergency, can effectively remove deposits and sediment from the engine cleaning the clogged oil channels;
- Short flush time – only 15 minutes;
- Adapts the engine for change to the other oil type (for example, from mineral to semisynthetic, change to alternative brand oil);
- Compatible with all types of engine oil;
- Made using the technology of LUBRIZOL® Corporation – the world leader in the field of lubricant components.



ATF III

Multipurpose all-season power fluid for automatic gearboxes



1L
20L
200L

Intended for automatic gearboxes, transmissions, servo drives (power steering) of passenger cars and trucks, buses, special vehicles, other hydraulic systems, where Dexron® III or Dexron® II fluids are recommended. Produced on basis of foreign components. Coloured red.
Temperature range -40 +45 °C.

COMPLIANCE

GM DEXRON - III; FORD MERCON;
ALLISON C-4; ZF TE-ML 05L;
ZF TE-ML 09

TYPICAL CHARACTERISTICS

Kinematic viscosity at 100°C, mm ² /s	7,5
Density at 20°C, kg/m ³	865
Viscosity index	180
Flash point in open crucible, °C	187
Pour point, °C	-45

BENEFITS

- Has a high thermal, oxidation stability and excellent pumpability (low temperature fluidity), providing uninterrupted operation of the machinery at extremely low temperatures;
- Provides easiness and smoothness of gear change in various operating modes;
- Excellent frictional properties;
- Ensures quiet operation;
- Extends transmission service life;
- Produced using the technology of LUBRIZOL® Corporation – the world leader in the field of lubricant components manufacture.

ATF IID

Universal all-season power fluid for automatic gearboxes



1L
20L
200L

Intended for automatic gearboxes, transmissions, servo drives (power steering) of passenger cars and trucks, buses, special vehicles where Dexron IID fluids are recommended. Produced on basis of foreign components. Coloured red.
Temperature range -40 +45 °C.

COMPLIANCE

GM DEXRON - IID; Ford MERCON;
Caterpillar TO-2; Volvo 97335

TYPICAL CHARACTERISTICS

Kinematic viscosity at 100°C, mm ² /s	7,7
Density at 20°C, kg/m ³	865
Viscosity index	150
Flash point in open crucible, °C	195
Pour point, °C	-42

BENEFITS

- Has a high thermal, oxidation stability and excellent pumpability (low temperature fluidity), providing uninterrupted operation of the machinery at extremely low temperatures;
- Provides easiness and smoothness of gear change in various operating modes;
- Excellent frictional properties ensure quiet operation;
- A modern package of extreme pressure additives provides a high level protection for various loads including impact loads;
- Produced using the technology of LUBRIZOL® Corporation – the world leader in the field of lubricant components manufacture.

PSF

All-season power steering fluid



1L
200L

Power Steering Fluid (PSF) - universal all-season power steering fluid. Owing to its universal properties the fluid can be used in power steering lubricating systems of most modern cars and trucks, and hydraulic gears of cargo, construction and agricultural vehicles in a wide temperature range.

Represents a special hydraulic fluid, made of high quality mineral base oils and effective set of additives. Coloured red.

TYPICAL CHARACTERISTICS

Kinematic viscosity at 100°C, mm ² /s	7,46
Density at 20°C, kg/m ³	878
Viscosity index	117
Flash point, °C	185
Pour point, °C	-40

BENEFITS

- Provides fault-free performance of hydraulic booster gears;
- Protects friction surfaces against wear and seizing;
- Protects steering system seals;
- Has very low freezing temperature;
- Substantially more saving as compared to ATF class fluids.

TRANS 75W-90 GL-4

Universal semi-synthetic transmission oil

- 1L
- 20L
- 20L
- 200L



Used in modern mechanical transmissions of passenger cars and trucks, differentials, transfer cases, and other units, where the use of transmission oil of API GL-4 grade is recommended.

Ideal for front-wheel drive cars. Using in heavy loaded gear and in the small machinery gearboxes 2T and 4T is acceptable.

Produced of high-quality base oils with modern additives package.

Temperature range $-30 +45$ °C.

SPECIFICATIONS	
SAE 75W-90; API GL-4	

TYPICAL CHARACTERISTICS	
Kinematic viscosity at 100°C, mm ² /s	15,5
Density at 20°C, kg/m ³	889
Viscosity index	150
Flash point in open crucible, °C	215
Pour point, °C	-33

BENEFITS

- Good lubrication and easy cold start including at low temperatures throughout the service life;
- Excellent frictional properties ensure smooth gear change and quiet operation;
- Consistently high performance in various operating modes;
- A high level of wear protection within a wide load range;
- Has increased oil drain period due to the high thermal stability;
- Produced using the technology of LUBRIZOL® Corporation – the world leader in the field of lubricant components manufacture.

TAD-17a

Universal all-season transmission oil

- 1L
- 3L
- 5L



Intended for use in car transmissions of various intensity, both rear and front wheel drives of passenger cars.

Produced on basis of residual and distillate oils with highly efficient multi-purpose additives package.

Using in heavy loaded gears is acceptable, as well as small machinery gearboxes 2T and 4T.

Temperature range $-23 +45$ °C.

SPECIFICATIONS	
SAE 85W-90; API GL-4	

TYPICAL CHARACTERISTICS	
Kinematic viscosity at 100°C, mm ² /s	18,3
Viscosity index	110
Acid number, mg KOH/g	0,9
Flash point in open crucible, °C	235
Pour point, °C	-25

BENEFITS

- Transmissions, both rear-wheel drive, and front wheel drive cars;
- Transmissions (synchronized and not synchronized) of trucks and agricultural machinery;
- Drive axles assemblies and other gears of trucks and cars;
- Bevel and hypoid gears with small cylinder offset;
- Corresponds to GL-4 quality degree;
- Due to the low pour point temperature, the year-round use is allowed in moderate climate zones.



SEMISYNTHETIC 4T 10W-40

Semi-synthetic all-season motor oil for four-stroke engines

- PVL
- CVL
- IND
- GRS
- SERVICE



SPECIFICATIONS	
SAE 10W-40, API SJ, SG	
COMPLIANCE	
JASO MA; JASO T903: 2006 MA2	
ENABLED PACKING	
1L	200L
TEMPERATURE RANGE	

Intended for lubricating systems of modern four-stroke engines of motorcycles, ATVs, scooters and other motor vehicles with any clutch type, and for the power equipment.
Using in water-cooled outboard engines is acceptable.
Produced of high-quality foreign mineral base oils with premium additives package..

BENEFITS	
<ul style="list-style-type: none"> ● Has high thermal stability and excellent detergency; ● Provides high anti-wear protection within a wide load range; ● Provides effective overheat protection for the engine; ● Minimizes exhaust smoking and emissions toxicity; ● Contains modern premium additives package; ● Excellent stability of viscosity rating within the viscosity grade throughout the service life; ● Produced using the technology of LUBRIZOL® Corporation – the world leader in the field of lubricant components manufacture. 	

TYPICAL CHARACTERISTICS	
Kinematic viscosity at 100°C, mm ² /s	14,0
Density at 20°C, kg/m ³	873
Viscosity index	152
Alkalinity, mg KOH/g	6,5
Flash point in open crucible, °C	215
Pour point, °C	-32

SCOOTER SYNT 2T (FC)

Semi-synthetic motor oil for two-stroke road machinery



Intended for two-stroke engines of air-cooled road machinery such as modern motorcycles, motorbikes, scooters, snowmobiles and other two-stroke machinery.

Used as a component in oil-fuel blend in a ratio recommended by machines manufacturer. Standard injection varies from 1:32 to 1:50.

Produced of high-quality base oils with selected active additives package.

Temperature range $-13 +45$ °C.

SPECIFICATIONS

API TC; JASO FC (JAPAN); ISO-L-EGC

TYPICAL CHARACTERISTICS

Kinematic viscosity at 100°C, mm ² /s	8,1
Density at 20°C, kg/m ³	872
Viscosity index	121
Alkalinity, mg KOH/g	1,46
Flash point in open crucible, °C	106
Pour point, °C	-15

BENEFITS

- Provides best lubricating, anti-wear, anticorrosion and detergent properties incl. extreme loads;
- Has optimal quality level for two-stroke engines of modern machinery;
- Ideal for vehicles manufactured in Japan, China and South-East Asia, as it corresponds to specifications of JASO FC (Japan);
- Minimizes exhaust smoking, which allows to use this oil in conditions of strict environmental regulations;
- The possibility of application in separate lubricating systems for two-stroke engines;
- Contains active additives package of new generation, providing increased engine cleanliness;
- Good fuel-miscible even at low temperatures;
- Produced using the technology of LUBRIZOL® Corporation – the world leader in the field of lubricant components manufacture.

MOTOMIX 2T (TC)

Mineral motor oil for two stroke engines



Intended for lubricating systems of air-cooled two stroke engines of modern motorcycles, motorbikes, chainsaws and other machinery.

Used as a component in oil-fuel blend in a ratio recommended by machines manufacturer. Standard injection varies from 1:32 to 1:50.

Temperature range $-24 +50$ °C.

SPECIFICATIONS

API TC; JASO FB

TYPICAL CHARACTERISTICS

Kinematic viscosity at 100°C, mm ² /s	8,5
Density at 20°C, kg/m ³	890
Viscosity index	110
Alkalinity, mg KOH/g	1,55
Flash point in open crucible, °C	215
Pour point, °C	-16

BENEFITS

- Provides good lubricating, anti-wear, anticorrosion and detergent properties due to the content of active additives package;
- Highly-efficient additives contained in the oil provide carbon removal from the combustion chamber;
- The possibility of year-round use;
- Provides long service life of ignition plug;
- Minimizes maintenance costs;
- Produced using the technology of LUBRIZOL® Corporation – the world leader in the field of lubricant components manufacture.

MASTER SYNT 4T 10W-30 NEW

Semi-synthetic motor oil for four-stroke engines

1L
200L



Used for lubricating systems of modern four-stroke engines of garden machinery and power equipment: mowers, cultivators, generators, motor pumps, snow-removing machines and other four-stroke machinery.

A modern additives package, contained in the oil, provides performance stability throughout the service life, ensuring a high level of reliability, loads and low-temperatures stability. Minimizes exhaust smoking and emissions toxicity. Biodegradable.

SPECIFICATIONS

SAE 10W-30; API SL/CF; JASO MA2 T903:2011

TYPICAL CHARACTERISTICS

Kinematic viscosity at 100°C, mm ² /s	12,0
Viscosity index	150
Alkalinity, mg KOH/g	7
Pour point, °C	-32

BENEFITS

- The possibility of year-round use;
- Specially designed for the engines of frequently used garden machinery and power equipment;
- Due to the special high-viscosity formula, forms a durable oil film, capable of withstanding the continuous loads;
- Characterized by minimum evaporation loss rate, therefore — low consumption;
- Provides effective protection of the engine parts against corrosion and carbon formation;
- Improves engine compression, increasing its capacity.
- Produced using the technology of LUBRIZOL® Corporation — the world leader in the field of lubricant components manufacture.

MASTER 4T SAE 30 NEW

Universal motor oil for four-stroke engines

1L
200L



Used for lubricating systems of modern four-stroke engines of garden machinery and power equipment: mowers, cultivators, generators, motor pumps and other machinery.

A modern additives package, contained in the oil, provides performance stability throughout oil service life, ensuring a high level of reliability, loads stability. Minimizes exhaust smoking and emissions toxicity. Biodegradable.

SPECIFICATIONS

SAE 30; API SL/CF; JASO MA2 T903:2011

TYPICAL CHARACTERISTICS

Kinematic viscosity at 100°C, mm ² /s	12,0
Viscosity index	100
Alkalinity, mg KOH/g	6,5
Pour point, °C	-18

BENEFITS

- Specially designed for the engines of frequently used garden machinery and power equipment.
- Forms a durable oil film in friction couples, capable of withstanding the continuous loads.
- Characterized by minimum evaporation loss rate, therefore — low consumption.
- Provides effective protection of the engine parts against corrosion and carbon formation.
- Improves engine compression, increasing its capacity.
- Produced using the technology of LUBRIZOL® Corporation.

SUPER SYNT 2T^{GREEN GARDEN}

Semi-synthetic motor oil for two-stroke engines



Intended for using in two-stroke engines, garden and other air and water-cooled machinery.

Application in the road machinery is acceptable as well, especially where exhaust smoking restriction requirements exist.

YUKO Super Synt 2T Green Garden conforms to the requirements of API TC, and JASO FC.

Used as a component in oil-fuel blend in a ratio recommended by machines manufacturer. Standard injection varies from 1:32 to 1:50.

SPECIFICATIONS

API TC; JASO FC (JAPAN); ISO-L-EGC

TYPICAL CHARACTERISTICS

Kinematic viscosity at 100°C, mm ² /s	8,8
Density at 20°C, kg/m ³	879
Viscosity index	126
Alkalinity, mg KOH/g	1,85
Flash point in open crucible, °C	110
Pour point, °C	-15

BENEFITS

- Provides good lubricating, anti-wear, anticorrosion and detergent properties;
- Environment-friendly as it is smoke-free and biodegradable;
- Low-ash oil formula prevents carbon and lacquer formation;
- Provides improved engine cleanliness due to the content of synthetic components;
- The possibility of year-round use;
- Contains active additives package;
- Compatible with all engine sealings;
- Produced using the technology of LUBRIZOL® Corporation – the world leader in the field of lubricant components manufacture.

PILAN

Special all-season oil for saw chains



Used for lubrication of saw chains and guide blades with manual and automatic lubricating systems of such manufacturers as Stihl, Bosch, Black&Decker, Husqvarna and others.

Produced of extra quality components, providing performance stability throughout the shelf and service life. Biodegradable.

SPECIFICATIONS

ISO 100

TYPICAL CHARACTERISTICS

Kinematic viscosity at 40°C, mm ² /s	100
Density at 20°C, kg/m ³	890
Viscosity index	95
Acid number, mg KOH/g	0,79
Flash point in open crucible, °C	225
Pour point, °C	-28

BENEFITS

- Effectively protects the lubricated structure elements against wear and corrosion;
- Provides fast and clean cutting;
- Prevents chain drop;
- Extends chainsaws service life;
- Reduces oil consumption;
- Reaches every point of linkage and clutches;
- The possibility of year-round use for all types of chainsaws;
- Biodegradable;
- Produced using the technology of LUBRIZOL® Corporation – the world leader in the field of lubricant components manufacture.





COMMERCIAL
VEHICLE
LUBRICANTS

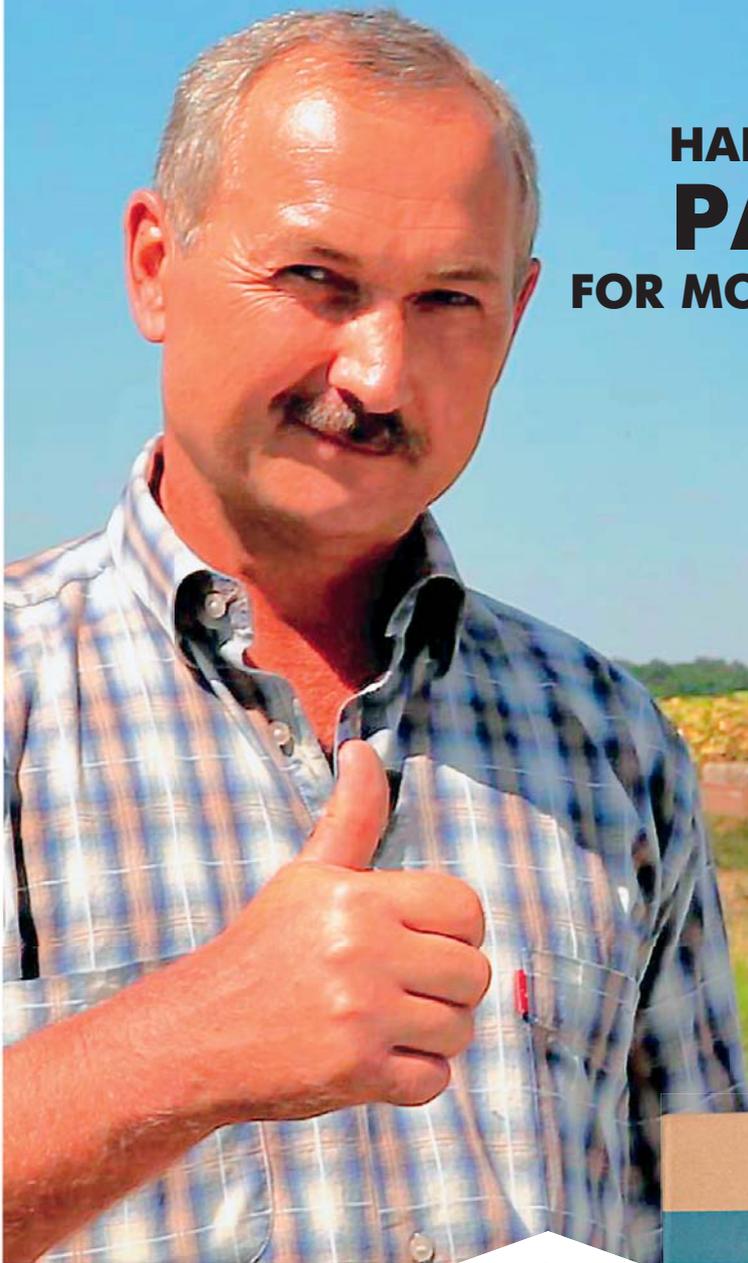


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MEGA DIESEL 10W-40

Semi-synthetic all-season motor oil for modern diesel engines



20L

200L

The newest all-season semi-synthetic motor oil for long-distance and urban trucks, agricultural and construction machinery, buses and other commercial vehicles.

Produced of high-quality base oils with high-efficient modern additives package. Provides high antifricition, anticorrosion, detergent and antioxidizing oil properties throughout the service life.

Intended for year-round use incl. modern high-speed air and turbo diesel engines.

SPECIFICATIONS

SAE 10W-40; API CI-4/SL

COMPLIANCE

MB 228.3; CUMMINS CES 20078; VOLVO VDS-2, VDS-3; RENAULT RLD-2; CATERPILLAR ECF-1

TYPICAL CHARACTERISTICS

Kinematic viscosity at 100°C, mm ² /s	14,5
Density at 20°C, kg/m ³	875
Viscosity index	150
Alkalinity, mg KOH/g	9,0
Flash point in open crucible, °C	210
Pour point, °C	-32

BENEFITS

- Easy cold start in winter;
- Consistently high performance in various operating modes throughout the service life;
- Prevents high and low temperature deposits formation in the engine;
- Improved anti-foam properties, that significantly reduces foaming in the hydraulic drive system of the valves;
- Compatible with all engine sealings;
- High-class performance properties allow to apply Yuko Mega Diesel 10W-40 in the engines of most modern commercial vehicles;
- Produced using the technology of LUBRIZOL®.

MEGA DIESEL 15W-40

All-season motor oil for modern diesel engines



20L

200L

Intended for year-round use in high-speed air and turbo diesel engines of long-distance trucks, agricultural and construction machinery, buses and other commercial vehicles.

Produced of selected base oils with effective additives package, providing optimum antifricition, anticorrosion, detergent and antioxidizing properties.

Licensed by API. Approvals of MB, Cummins, Volvo, Renault, Caterpillar.

SPECIFICATIONS

SAE 15W-40; API CI-4/SL (LICENSED)

APPROVALS

MB 228.3; CUMMINS CES 20078; VOLVO VDS-2, VDS-3; RENAULT RLD-2; CATERPILLAR ECF-1

TYPICAL CHARACTERISTICS

Kinematic viscosity at 100°C, mm ² /s	14,0
Density at 20°C, kg/m ³	880
Viscosity index	135
Alkalinity, mg KOH/g	8,0
Flash point in open crucible, °C	215
Pour point, °C	-27

BENEFITS

- Consistently high performance in various operating modes over a long period of time;
- Improved anti-foam properties, which significantly reduces the risk of foam formation in the hydraulic circuit of valves;
- Compatible with all engine sealings;
- Produced using the technology of LUBRIZOL® Corporation — the world leader in the field of lubricant components manufacture.

PVL

CVL

IND

GRS

SERVICE

TURBOSYNT DIESEL 10W-40

Semi-synthetic motor oil for diesel engines



Intended for modern air and turbo diesel engines of passenger cars, vans and trucks and other commercial vehicles.

Produced of high-quality foreign base oils with additives, providing optimum performance throughout the service life.

SPECIFICATIONS	
SAE 10W-40; API CF-4/SG	

TYPICAL CHARACTERISTICS	
Kinematic viscosity at 100°C, mm ² /s	13,5
Density at 20°C, kg/m ³	885
Viscosity index	140
Alkalinity, mg KOH/g	8,5
Flash point in open crucible, °C	223
Pour point, °C	-32

BENEFITS

- Consistently high performance in various operating modes;
- Optimum lubricating properties and detergency;
- Easy cold start in winter;
- Prevents high and low temperature deposits formation in the engine;
- Reliable wear protection of engine parts throughout the service life;
- Compatible with all engine sealings;
- Produced using the technology of LUBRIZOL® Corporation – the world leader in the field of lubricant components manufacture.

SUPER DIESEL 15W-40

All-season mineral motor oil for modern diesel engines



Intended for modern air and turbo diesel engines of passenger cars, vans and trucks incl. powered by fuel with high sulphur content.

Produced of mineral base oils with modern additives, providing oil performance stability throughout the whole service and shelf life.

SPECIFICATIONS	
SAE 15W-40; API CF-4/SG	

TYPICAL CHARACTERISTICS	
Kinematic viscosity at 100°C, mm ² /s	14,5
Density at 20°C, kg/m ³	890
Viscosity index	125
Alkalinity, mg KOH/g	10,0
Flash point in open crucible, °C	220
Pour point, °C	-30

BENEFITS

- Excellent lubricating, detergent and anticorrosive properties;
- Prevents high and low temperature deposits formation in the engine;
- Due to correspondence with quality degree API CF-4 it is optimum for the most common diesel engine models;
- Compatible with all engine sealings;
- A wide range of packaging meets the requirements of any equipment;
- All packing types have several levels of counterfeit protection;
- Produced using the technology of LUBRIZOL® Corporation – the world leader in the field of lubricant components manufacture.

TURBO DIESEL 15W-40

All-season mineral motor oil for diesel engines



Intended for year-round use in air and turbo diesel engines of passenger cars, vans, trucks incl. turbocharged.

Produced of mineral base oils with modern additives, providing the properties significantly surpassing similar class oils.

The most suitable oil for the transfer of the diesel engines from one season oils to all-season ones.

Using in gasoline engines is acceptable in accordance with car manufacturers' instructions.

SPECIFICATIONS	
SAE 15W-40; API CD/SF	

TYPICAL CHARACTERISTICS	
Kinematic viscosity at 100°C, mm ² /s	14,0
Density at 20°C, kg/m ³	885
Viscosity index	115
Alkalinity, mg KOH/g	8,2
Flash point in open crucible, °C	220
Pour point, °C	-25

BENEFITS

- Good lubricating, detergent and anticorrosion properties;
- Good protection against high and low temperature deposits formation in the engine;
- Optimum for most common models of diesel engines;
- Compatible with all engine sealings;
- Ideal price/quality ratio;
- The most suitable oil for the transfer of the diesel engines from one season oils to all-season ones;
- Produced using the technology of LUBRIZOL®.

M-10DM

Season motor oil for diesel engines



Intended for lubrication of rough handling, turbocharged heavy loaded diesel engines ("MAZ" trucks, road trains, haulers, urban and interurban buses, dump trucks, bulldozers, heavy industrial tractors), and medium charged diesels with moderate charging or naturally aspirated with increased oil drain period.

Produced of mineral base oils with high-quality additives.

SPECIFICATIONS	
SAE 30; API CC	

TYPICAL CHARACTERISTICS	
Kinematic viscosity at 100°C, mm ² /s	12,5
Density at 20°C, kg/m ³	892
Viscosity index	95
Alkalinity, mg KOH/g	9,4
Flash point in open crucible, °C	236
Pour point, °C	-20

BENEFITS

- High alkalinity provides excellent washing and neutralizing capacity of the oil throughout the operation, and helps to secure the protection from carbon deposition;
- Improved antiwear and anticorrosion properties;
- Has a high thermal-oxidative stability;
- It is characterized by resistance to foaming and guarantees excellent lubrication of the parts;
- Provides long mileage between oil changes.

M-10G2K

Season motor oil for diesel engines



Used for lubrication of diesel engines with low-level charging during warm seasons, heavy loaded motor-and-tractor naturally aspirated diesel engines, high-speed stationary diesels, and engines of "KamAZ", "ZIL" vehicles, "Ikarus" buses.

Produced of mineral base oils with additives.

SPECIFICATIONS	
SAE 30; API CC	

TYPICAL CHARACTERISTICS	
Kinematic viscosity at 100°C, mm ² /s	11,16
Density at 20°C, kg/m ³	887
Viscosity index	95
Alkalinity, mg KOH/g	6,6
Flash point in open crucible, °C	234
Pour point, °C	-18

BENEFITS

- Protects diesel engines parts against all types of deposits and corrosion;
- Has excellent lubricating properties, high thermal-oxidative stability;
- Capable of neutralizing acids, formed during engine operation.

M-8V

All-season motor oil based on mineral oil



Used year-round for medium charged gasoline engines of passenger cars and trucks, as well as winter oil for medium charged motor-and-tractor diesel engines.

Produced of mineral base oils with special additives package.

It is recommended for use in ZIL, GAZ, UAZ vehicles with permissible drain interval up to 18 000 km.

SPECIFICATIONS	
SAE 20W; API SD/CB	

TYPICAL CHARACTERISTICS	
Kinematic viscosity at 100°C, mm ² /s	7,9
Density at 20°C, kg/m ³	885
Viscosity index	100
Alkalinity, mg KOH/g	5,0
Flash point in open crucible, °C	220
Pour point, °C	-26

BENEFITS

- Provides engine cold start in winter in moderate climate zone;
- Prevents lacquer and carbon formation, minimizes the wear of friction parts;
- Has a high thermal-oxidative stability;
- Prevents corrosion during long-term parking and operation of the vehicle.



TM-5 80W-90

All-season universal transmission oil of API GL-5 grade

20L

200L



Used for lubrication of trucks and cars transmissions, and other vehicles, where transmission oils of GL-5 grade is recommended, in hypoid gears, operating under impact loads at contact stresses over 3000 MPa and transmission oil temperature in the volume up to 150 °C.

Produced of high-quality base oils with extra additives package.

SPECIFICATIONS

SAE 80W-90; API GL-5

TYPICAL CHARACTERISTICS

Kinematic viscosity at 100°C, mm ² /s	15,0
Density at 20°C, kg/m ³	890
Viscosity index	100
Acid number, mg KOH/g	1,2
Flash point in open crucible, °C	220
Pour point, °C	-25

BENEFITS

- The highest performance level;
- Smooth gear change and quiet operation of the transmission;
- A modern package of extreme pressure additives provides a high level protection for various loads including impact loads;
- Significantly reduces the wear of gear transmissions and bearings.

TM-3 80W-90

All-season transmission oil of API GL-3 grade

20L

200L



Intended for all-season use in cargo vehicle transmissions, agricultural, construction and other commercial vehicles.

Also used for lubrication of spur, spiral bevel and worm gears, operating at contact stresses under 2500MPa, and oil temperature in the volume up to 150 °C.

Produced of high-quality base oils with extra additives package.

SPECIFICATIONS

SAE 80W-90; API GL-3

TYPICAL CHARACTERISTICS

Kinematic viscosity at 100°C, mm ² /s	15
Density at 20°C, kg/m ³	890
Viscosity index	97
Flash point in open crucible, °C	230
Pour point, °C	-23

BENEFITS

- Contains a modern package of extreme pressure additives providing a high level protection for various loads, including impact loads, within a wide temperature range;
- Cost saving for operation and maintenance is achieved due to the ideal price/quality ratio;
- Low volatility at high operating temperatures;
- Has good anti-foam and anticorrosion properties, compatible with seal materials;
- Produced using the technology of LUBRIZOL® Corporation – the world leader in the field of lubricant components manufacture.

NIGROL-L

Mineral summer transmission oil without additives

- 1L
- 5L
- 20L
- 20L
- 200L



Used in summer as power fluid in gearboxes, low-loaded units of industrial equipment, exposed gear transmissions, planetary gears of cranes, excavators, gear transmissions and transmission units of industrial equipment, tractors, agricultural and road machinery, construction machinery.

SPECIFICATIONS	
SAE 140; API GL-1	
TYPICAL CHARACTERISTICS	
Kinematic viscosity at 100°C, mm ² /s	28,5
Flash point in open crucible, °C	160
Pour point, °C	-5

TAP-15V

Mineral transmission oil for cargo and agricultural vehicles

- 5L
- 20L
- 200L



Used in cargo vehicle transmissions, agricultural vehicles, and for lubrication of spur, spiral bevel and worm gears, where contact stresses reach 2000 MPa.

Produced of mineral base oils with additives.

SPECIFICATIONS	
SAE 90; API GL-3	
TYPICAL CHARACTERISTICS	
Kinematic viscosity at 100°C, mm ² /s	15,5
Flash point in open crucible, °C	230
Pour point, °C	-16

BENEFITS

- Ensures excellent lubrication of the parts of transmission, including during operation under high loading;
- Extends the service life of gearbox parts;
- Contains detergent, thermal-oxidative and anti-wear additives;
- Provides good protection for engine parts against corrosion and deposits.

TAD-17i

Universal classical all-season transmission oil

- 20L
- 200L



Intended for lubrication of all transmission types, including heavy loaded, hypoid ones, of truck and passenger cars, tractors and other mobile vehicles.

Produced of high-quality base oils with effective additives..

SPECIFICATIONS	
SAE 85W-90; API GL-5	
TYPICAL CHARACTERISTICS	
Kinematic viscosity at 100°C, mm ² /s	18,5
Density at 20°C, kg/m ³	893
Viscosity index	105
Acid number, mg KOH/g	0,8
Flash point in open crucible, °C	230
Pour point, °C	-20

BENEFITS

- Provides a high level of wear protection within a wide load range;
- Low volatility at high operating temperatures;
- Consistently high performance in various operating modes;
- Has good anti-foam and anticorrosion properties, compatible with seal materials;
- Based on bench tests results conducted by CJSC "ZAZ" it is approved and recommended for use;
- A modern package of extreme pressure additives provides a high-level protection for various loads, including impact loads.



M-10G2CS

Motor oil for marine diesel machinery



 200L

Used for lubrication of main and auxiliary trunk-piston medium and heavy loaded diesel engines of marine and river vessels, gearboxes, compressors and other marine machinery, where water resistant oils are required.

Also used in heavy loaded circulating systems and low-speed crosshead heavy loaded diesel engines, for lubricating systems of low-speed diesel engines cylinders powered by fuels with sulphur content up to 1.0%.

Produced of mineral base oils with special additives package..

SPECIFICATIONS	
SAE 30, API CC	
TYPICAL CHARACTERISTICS	
Kinematic viscosity at 100°C, mm ² /s	10,67
Density at 20°C, kg/m ³	889
Viscosity index	94
Alkalinity, mg KOH/g	9,3
Flash point in open crucible, °C	220
Pour point, °C	-12

BENEFITS

- Minimizes carbon formation when operating on residual fuels, provides neutralization of acidic combustion products, anti-foam protection of lubricant film;
- Reduces engine parts wear;
- Has a high thermal-oxidative stability;
- Prevents corrosive effect of sea water and machinery corrosion;
- Has good filterability and easy water separability.

M-14G2CS

Motor oil for diesel locomotive engines



 200L

Used for lubrication of diesel locomotive engines ChN 26/26 type, stationary diesel-generators with engines ChN 40/48 type, geared diesel engines ChN 40/46 type.

Also used for lubrication of main and auxiliary trunk-piston medium and heavy loaded diesel engines of marine and river vessels, and other marine machinery, where water resistant oils are required.

Produced of mineral base oils with special additives package.

SPECIFICATIONS	
SAE 40, API CC; CD	
TYPICAL CHARACTERISTICS	
Kinematic viscosity at 100°C, mm ² /s	14,15
Density at 20°C, kg/m ³	901
Viscosity index	100
Alkalinity, mg KOH/g	10,0
Flash point in open crucible, °C	238
Pour point, °C	-12

M-16G2CS

Motor oil for circulation lubricating systems



 200L

Intended for circulation lubricating systems of heavy loaded and low-speed crosshead and trunk-piston diesel engines, gearboxes, compressors and auxiliary equipment of domestic and foreign production vessels, where water resistant oils are required. Also used in lubricating systems of low-speed diesel engines cylinders powered by fuels with sulphur content up to 1.0%.

Produced of mineral base oils with high-efficient additives package.

SPECIFICATIONS	
SAE 40(50); API CC	
TYPICAL CHARACTERISTICS	
Kinematic viscosity at 100°C, mm ² /s	15,5
Density at 20°C, kg/m ³	900
Viscosity index	99
Alkalinity, mg KOH/g	9,4
Flash point in open crucible, °C	234
Pour point, °C	-12

M-14V2

Season oil for diesel locomotive and tractor engines

 200L



Intended for medium charged motor-and-tractor naturally aspirated engines, diesel-generators, pumping sets, medium charged diesel locomotive engines, operating under high load, powered by diesel fuel with sulphur content up to 0.5%.

Produced of mineral base oils with additives.

SPECIFICATIONS

SAE 40; API CB

TYPICAL CHARACTERISTICS

Kinematic viscosity at 100°C, mm ² /s	13,9
Density at 20°C, kg/m ³	900
Viscosity index	100
Alkalinity, mg KOH/g	6,0
Flash point in open crucible, °C	230
Pour point, °C	-12

BENEFITS

- Protects engine parts against all kinds of deposits and corrosion;
- Has good detergent, antioxidant, extreme pressure and anti-wear properties;
- Capable of neutralizing acids, formed during engine operation.

MT-16P

Motor oil for lubrication of transport diesel engines of V-2 type

 200L



Used for lubrication of transport diesel engines of V-2 type and similar in terms of forcing level of naturally aspirated motor-and-tractor diesel engines, diesel-generators, pumping sets.

Produced of mineral base oils with high-quality additives..

SPECIFICATIONS

SAE 40; API CA

TYPICAL CHARACTERISTICS

Kinematic viscosity at 100°C, mm ² /s	16,0
Density at 20°C, kg/m ³	895
Viscosity index	100
Alkalinity, mg KOH/g	6,6
Flash point in open crucible, °C	225
Pour point, °C	-25

BENEFITS

- Has detergent, antioxidant, extreme pressure and anti-wear properties.

MS-20 (CB 50)

Oil (CB 50) for lubrication of diesel engines

 20L

 200L



MS-20 oil (CB 50) — is used for lubrication of diesel engines, equipment and gears of metallurgical and mining companies, and for other equipment.

SPECIFICATIONS

SAE 50; API CB

TYPICAL CHARACTERISTICS

Kinematic viscosity at 100°C, mm ² /s	21,1
Density at 20°C, kg/m ³	893
Viscosity index	90
Acid number, mg KOH/g	0,024
Flash point in open crucible, °C	260
Pour point, °C	-15

BENEFITS

- High lubricity;
- Not aggressive to metals, alloys and other structural materials;
- High thermal and thermo-oxidizing stability.

PVL

CVL

IND

GRS

SERVICE



INDUSTRIAL
LUBRICANTS

HYDRAULIC OILS	36
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INDUSTRIAL OILS	37
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ENERGETIC OILS	38
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COOLANT LUBRICANTS	40

HYDROL HM 46

Hydraulic oil



Intended for hydraulic systems of various domestic and foreign equipment, requiring the high-class purity oils.

Used in the equipment with pumps of all types, operating under the pressure over 25MPa and oil temperature in the volume above +90°C.

Produced of high-quality extra-pure base oils with additives package.

SPECIFICATIONS

ISO HM; DIN HLP; ISO 46

TYPICAL CHARACTERISTICS

Kinematic viscosity at 40°C mm ² /s	45,5
Density at 20°C, kg/m ³	890
Viscosity index	98
Flash point in open crucible, °C	218
Pour point, °C	-15

MGE-46V (HM 46)

Hydraulic oil



Intended for hydraulic systems (hydrostatic drive) of agricultural and other machinery, operating with pressure under 35 MPa, with short increase up to 42 MPa.

Produced of high-quality base oils with additives package.

SPECIFICATIONS

ISO HM; ISO 46

TYPICAL CHARACTERISTICS

Kinematic viscosity at 40°C mm ² /s	46,1
Density at 20°C, kg/m ³	875
Viscosity index	99
Acid number, mg KOH/g	0,9
Flash point in open crucible, °C	226
Pour point, °C	-32

VMGZ (HV 15)

Hydraulic oil



Intended for year-round use in hydraulic control systems and hydraulic gear of construction, harvesting, road, handling and other equipment.

Produced of high-quality base oils with additives.

SPECIFICATIONS

ISO HV; ISO 15

TYPICAL CHARACTERISTICS

Kinematic viscosity at 50°C mm ² /s	14,7
Density at 20°C, kg/m ³	875
Viscosity index	130
Flash point in open crucible, °C	140
Pour point, °C	-50

MARK A (HV 32)

Hydraulic oil



Intended for year-round use in hydraulic converters and automatic gearboxes of home-produced trucks and buses, and in hydrostatic drives of self-propelled agricultural and other machinery.

Produced of high-quality base oils.

SPECIFICATIONS

ISO HV; ISO 32

TYPICAL CHARACTERISTICS

Kinematic viscosity at 40°C mm ² /s	36,0
Density at 20°C, kg/m ³	890
Flash point in open crucible, °C	182
Pour point, °C	-40

IGP-18 (HM 32)

Industrial and hydraulic oils



IGP-30 (HM 46)



IGP-49 (HM 68)



Used as power fluid in hydraulic systems of machine equipment, automated lines, presses, for lubrication of high-speed transmission gears, low and medium-loaded gearboxes and worm gears, variators, electromagnetic gears and gear clutches, bearing units of slideways and in other units and machinery, requiring the oils with improved anti-oxidant and anti-wear properties.

Produced of high-quality base oils with additives.

SPECIFICATIONS	IGP-18 (HM 32)	IGP-30 (HM 46)	IGP-49 (HM 68)
	ISO HM; ISO 32	ISO HM; ISO 46	ISO HM; ISO 68

TYPICAL CHARACTERISTICS	IGP-18 (HM 32)	IGP-30 (HM 46)	IGP-49 (HM 68)
Kinematic viscosity at 100°C, mm ² /s	32,0	46,0	80,0
Density at 20°C, kg/m ³	875	875	880
Viscosity index	95	96	96
Acid number, mg KOH/g	0,8	0,8	0,6
Flash point in open crucible, °C	216	218	232
Pour point, °C	-15	-15	-15

I-20A

Industrial oils



I-40A



I-50A



Used in the industrial machinery, which operating conditions do not impose specific requirements to oxidation and corrosion resistance of oils, and as hydraulic fluid. This oil performance allows its safe use for lubrication of low and medium-loaded gear transmissions, linear frictionless bearings and slideways of the machines and many other devices, which do not require using the special oils.

It is solvent-refined base oil without additives.

SPECIFICATIONS	I-20A	I-40A	I-50A
	ISO HH; ISO 32	ISO HH; ISO 68	ISO HH; ISO 100

TYPICAL CHARACTERISTICS	I-20A	I-40A	I-50A
Kinematic viscosity at 100°C, mm ² /s	32,0	68,0	100,0
Density at 20°C, kg/m ³	869	880	880
Viscosity index	85	85	85
Acid number, mg KOH/g	0,0025	0,002	0,002
Flash point in open crucible, °C	212	232	240
Pour point, °C	-15	-15	-15

TP-22C (ISO 32)

Turbine oil



Intended for high-speed steam turbines, and centrifugal and turbo compressors.

Used in cases, where oil viscosity provides the required anti-wear properties.

SPECIFICATIONS

ISO 32

TYPICAL CHARACTERISTICS

Kinematic viscosity at 40°C, mm ² /s	32
Density at 20°C, kg/m ³	875
Viscosity index	94
Acid number, mg KOH/g	0,016
Flash point in open crucible, °C	200
Pour point, °C	-15

BENEFITS

- Improved oxidation stability extends oil and process equipment service life;
- Superior demulsifying properties allow using the oil even when watered;
- Improved operational safety due to reduced volatility of oil components (flash point is 20-25°C higher than TU specifications).

TP-30 (ISO 46)

Turbine oil



Intended for turbines, operating with high-speed loaded gearboxes.

Used for hydraulic turbines, low-speed steam turbines, turbo and centrifugal compressors.

SPECIFICATIONS

ISO 46

TYPICAL CHARACTERISTICS

Kinematic viscosity at 40°C, mm ² /s	46
Density at 20°C, kg/m ³	875
Viscosity index	97
Acid number, mg KOH/g	0,23
Flash point in open crucible, °C	200
Pour point, °C	-10

BENEFITS

- Excellent oxidation stability ensures long oil life;
- High demulsifying properties allow using the oil even when watered;
- Extends equipment service life due to anti-wear and antifriction additives.

T-1500

Transformer oil



Intended for filling of power and measuring transformers, oil breaks, reactor facilities and other high-voltage equipment as main electrical insulators, including the function of arc-extinguishing medium.

Produced of sulphurous paraffin base oils, using solvent-refined and hydrogenation procedures. Used for energized insulation and transformer units, heat removal and moisture protection.

TYPICAL CHARACTERISTICS

Kinematic viscosity at 50°C, mm ² /s	7,9
Flash point in open crucible, °C	145
Acid number, mg KOH/g	0,005
Loss tangent of a dielectric at 90°C, %	0,5
Pour point, °C	-45

BENEFITS

- Improved oxidation stability;
- Capability of oil to maintain the parameters at continuous operation.



HA-30 (ISO 22)

Oil for refrigerating machines



Used for lubrication of refrigerating machines compressors, operating on ammonia and carbon dioxide.

It is a completely soluble with R12 coolant in rated operating conditions of refrigerating machinery, the blend formed in this case represents a homogeneous medium, which completely returns to the compressor and provides its proper lubrication. Flocculation temperature in R-12 refrigerant solution is minus 35°C. While in operation, blend viscosity forms rather thick oil film on the friction surfaces.

SPECIFICATIONS	
ISO 22	

TYPICAL CHARACTERISTICS	
Kinematic viscosity at 50°C, mm ² /s	30,1
Acid number, mg KOH/g	0,03
Flash point in open crucible, °C	190
Pour point, °C	-35
Ash content, %	0,003

BENEFITS

- High oxidation stability, allows using the oil over a long period of time;
- Prevents sludge and deposits formation, which can cause problems, associated with deposits formation on valves, in recirculation and filtering systems;
- No effect on seal materials.

VM-4 (ISO 68)

Vacuum oil



Used as power fluid in mechanical vacuum pumps with oil seal.

Produced of stringently purified mineral oil without additives. Characterized by narrow fraction composition, low volatility and high oxidation stability. Used as power fluid in mechanical vacuum pumps with oil seal.

SPECIFICATIONS	
ISO 68	

TYPICAL CHARACTERISTICS	
Kinematic viscosity at 50°C, mm ² /s	52
Viscosity index	90
Flash point in open crucible, °C	230
Pour point, °C	-15
Volatility at 250°C, %	5

BENEFITS

- Low volatility;
- Good air separating properties for effective pump operation;
- Good demulsibility, which provides water separation and prevents emulsification;
- Good wear protection during start and limiting conditions;
- Long service life due to high thermal-oxidative stability and low tendency to deposit formation.

KS-19 (ISO 220)

Compressor oil



Intended for lubrication of medium and high-pressure piston compressor.

Used in piston and rotary compressors of moderate duties (medium and high pressure) at discharge temperature under 160 °C.

SPECIFICATIONS	
ISO 220	

TYPICAL CHARACTERISTICS	
Kinematic viscosity at 40°C, mm ² /s	220
Viscosity index	91
Flash point in open crucible, °C	262
Pour point, °C	-15

BENEFITS

- Protects equipment against wear and corrosion;
- Has good performance properties;
- Reduces maintenance costs because of forced outage;
- Approved for use by most manufacturers of domestic piston compressors.



LUBRINOL-M

Water-soluble lubricating coolant



The lubricate is used as a 5–10% water emulsion for metal cutting and pressure operations, on the stage of cold rolling for carbon and alloyed steels, for the oiling of band steel before wrapping it into a roll.

Operating temperature range from +15°C to +45°C

SPECIFICATIONS	
ISO 46	

TYPICAL CHARACTERISTICS	
Concentrated liquid:	
Kinematic viscosity at 50°C, not less than mm ² /s	20
Storage property	Stable
Acid number, mg KOH / g, not more than	25
Water content, mass % not more than	1,5
Working emulsion 5%:	
Corrosive effect on metals	resistant
Emulsion stability	stable
pH value, not less than	7,5

BENEFITS

- High abrasion resistance and greasy properties;
- Excellent emulsifying ability;
- Easy-to- use;
- Corrosion resistant and dispersing properties;
- Economical specific consumption;
- Long lifetime

AKVANOR

Water-soluble lubricating coolant



The synthetic product is used as a 2–5% water emulsion for machining (turning, drilling, milling cut, thread cutting, drawing, grinding) of cast iron, carbon steels, non-ferrous metals and alloys and as a hydraulic fluid in form of a 2–5% water emulsion.

Operating temperature range from +15°C to +45°C

SPECIFICATIONS	
ISO 2	

TYPICAL CHARACTERISTICS	
Concentrated liquid:	
Density at 20°C, kg/m ³ ,	1066
Kinematic viscosity at 40°C, not less than mm ² /s	1,2
Acid number, mg KOH/g, not more than	8,0
Corrosive effect on metals	resistant
Working emulsion 5%:	
Storage property	Stable
Emulsion stability	stable
In-range pH value	8–10

BENEFITS

- Free of petroleum products;
- Long lifetime;
- Environmental friendly;
- Wide applications;
- Resistant to temperature differences;
- Easy-to- use;
- Corrosion resistant;
- Fire and explosion safety.

TEMP-3KN

Water-soluble lubricating coolant



It is used as a 2–5% water emulsion for oiling of carbon steels after pickling prior to cold rolling.

Operating temperature range from +15°C to +45°

SPECIFICATIONS	
ISO 680	

TYPICAL CHARACTERISTICS	
Concentrated liquid:	
Kinematic viscosity at 100°C, not less than mm ² /s	15
Storage property	Stable
Acid number, mg KOH / g	130
Melting point, not less than, °C	100–150
Water content, mass % not more than	5
Working emulsion 5%:	
Corrosive effect on metals	resistant
Emulsion stability	stable
In-range pH value	8–10

BENEFITS

- Free of petroleum products;
- Easy-to- use;
- Fire and explosion safety;
- Economical specific consumption;
- Highly corrosion resistant;
- High handling ability;
- Ensure long lifetime.

USE: water with the hardness up to 6 mg-equivalent/dm³, is best suited to prepare the water emulsion free of the colloidal matters and chemical additives. Before preparation the water emulsion the concentrated liquid should be thoroughly mixed in a storage container (or in the can). Pour an estimated amount of the liquid in an agitation container. Then pour small batch or thread of water with temperature of 15–45°C at continuously stirring. Upon completion of water pouring the mixture should be thoroughly stirred until you get homogeneous emulsion. It is a customer who determines content of the concentrated liquid in the emulsion.

EOM-1 (ISO 32)

Water-soluble lubricating coolant



Emulsol, used in the form of 5% emulsion.

Used in operations of sharpening, milling, drilling, reaming, shaping, screw cutting, broaching, grinding of cast iron, carbon, low and middle alloyed structural steel, some alloys and non-ferrous metals.

SPECIFICATIONS	
ISO 32	
TYPICAL CHARACTERISTICS	
Kinematic viscosity at 50°C, mm ² /s	31
Density at 20°C, kg/m ³	890
Corrosive effect on metals — stands	

- BENEFITS**
- A high biostability;
 - Improved efficiency and durability;
 - Absence of heavy metals;
 - Safe for environment and human health;
 - Good wetting and cleaning properties;
 - Reduced consumption of emulsion due to reduced wear, clean equipment, improved treatment quality;
 - Excellent corrosion protection;
 - Good rust prevention for machines and products.

EKS-A (ISO 100)

Water-soluble lubricating coolant



Water-soluble lubricating coolant, used to lubricate metal moulds.

Used in production of reinforced concrete, foam concrete and other building constructions. Addition of caustic ash is required when preparing the emulsion..

SPECIFICATIONS	
ISO 100	
TYPICAL CHARACTERISTICS	
Kinematic viscosity at 50°C, mm ² /s	175
Density at 20°C, kg/m ³	890
Corrosive effect on metals — stands	

- BENEFITS**
- Easy separation of the finished product from the metal mould or timbering;
 - Provides good quality of exterior product surface;
 - Reduces the number of pores and cavities on the front (working) product surface.

EOF-1 (ISO 46)

Water-soluble lubricating coolant



Used to lubricate metal moulds in production of reinforced concrete and concrete products, using metal moulds in the form of 3-10% emulsion.

SPECIFICATIONS	
ISO 46	
TYPICAL CHARACTERISTICS	
Kinematic viscosity at 50°C, mm ² /s	58
Density at 20°C, kg/m ³	890
Corrosive effect on metals — stands	

- BENEFITS**
- Simplifies separation of the finished product from the metal mould or timbering;
 - Provides good quality of exterior product surface;
 - Reduces the number of pores and cavities on the front (working) product surface.



MR-7V (ISO 32)

Lubricating coolant oil



Used for drilling, turning, milling, threading and tooth cutting, pulling. Also used in automatic machines, for carbon and alloy steels treatment, as well as some hard-to-treat steels and alloys.

SPECIFICATIONS	
ISO 32	

TYPICAL CHARACTERISTICS	
Kinematic viscosity at 50°C, mm ² /s	25
Density at 20°C, kg/m ³	890
Corrosive effect on metals – stands	
Acid number, mg KOH/g	0,8
Flash point, °C	205
Sulphur content, %	1,5

- BENEFITS**
- Allows to increase cutting speed for 15-30%;
 - Improves durability of cutting tools;
 - Reduces roughness of machined surfaces;
 - Improves sanitary-hygienic labour conditions.

OSM-1 (ISO 5)

Lubricating coolant fluid



Used for honing, polishing, super finishing of cast irons, carbon and alloy steels, aluminium polishing.

SPECIFICATIONS	
ISO 5	

TYPICAL CHARACTERISTICS	
Kinematic viscosity at 50°C, mm ² /s	3,5
Density at 20°C, kg/m ³	850
Corrosive effect on metals – stands	
Sulphur content, %	0,3

- BENEFITS**
- Has good detergency;
 - Speeds up slurry removal from the cutting zone;
 - Increases wear resistance of diamond abrasive tools;
 - Has good filterability;
 - Compatible with hydraulic oils.

YUKO USK NEW

Multipurpose casting binder



Casting composition (casting binder) is used in production of sand moulds and bars of all complexity classes of machine moulding, including thin-walled, open-work of high strength in a dry condition (σ_p from 8 to 12 kgf/cm²), applied in foundry production for obtaining casts of steel, cast iron and nonferrous alloys.

Temperature range -18°C +50°C

TYPICAL CHARACTERISTICS	
Engler viscosity at 50°C	3,00
Pour point, °C	-20
Total base #, mg KOH/g	54
Density at 20°C, kg/m ³	883

FORMA 8/9 (ISO 7/10)

Form-lubricating fluid



Used for lubrication of concrete forms in production of reinforced concrete, concrete and foam concrete products, and also variety of forms and formworks in construction.

The product does not require premixing. It is delivered ready-to-use.

SPECIFICATIONS	
ISO 7 / ISO 10	

TYPICAL CHARACTERISTICS	
Kinematic viscosity at 40°C, mm ² /s	8 / 9
Acid number, mg KOH/g	5 / 4,2
Flash point, °C	152 / 162
Pour point, °C	-15 / -16

BENEFITS

- Easy separation of form from the products even after several days;
- Clean product surface, without stains;
- After using the fluid, the form does not require additional cleaning;
- Does not corrode metal moulds;
- Efficient consumption;
- High biodegradability.

FORMA 68 (ISO 68)

Form-lubricating fluid



Used for lubrication of metal casing and moulds in production of lightweight concrete products (aerated concrete, foam concrete and gas concrete).

The product does not require premixing. It is delivered ready-to-use.

SPECIFICATIONS		
	ISO 68	ISO 150

TYPICAL CHARACTERISTICS	FORMA 68	FORMA 135
Kinematic viscosity at 40°C, mm ² /s	68	138
Acid number, mg KOH/g	6,5	6,5
Flash point, °C	220	230
Pour point, °C	-15	-15

BENEFITS

- Enables obtaining clean cast surface, without stains and bleaching concrete;
- Extends service life of wooden or plastic-covered moulds;
- Prevents corrosion of metal moulds;
- Different viscosity index of form-lubricating fluids allows considering application process features at the facilities of each particular customer.

FORMA 24 (ISO 22)

Form-lubrication fluid



Used for lubrication of forms in production of reinforced concrete, concrete, foam concrete and gas concrete products.

Used for production of products with increased quality requirements to the finished products and their surface, as well as for form-lubrication during monolithic construction.

The product does not require premixing. It is delivered ready-to-use.

SPECIFICATIONS	
ISO 24	

TYPICAL CHARACTERISTICS	
Kinematic viscosity at 40°C, mm ² /s	24
Acid number, mg KOH/g	10
Flash point, °C	156
Pour point, °C	-15

BENEFITS

- Enable obtaining clean cast surface, without stains and bleaching concrete;
- Extends service life of wooden or plastic-covered moulds;

FORMA 135 (ISO 150)

Form-lubricating fluid



Used for lubrication of metal casing and moulds in production of lightweight concrete (foam concrete, foam concrete and gas concrete).

The product does not require premixing. It is delivered ready-to-use.



GREASES



LITHIUM-BASED GREASES	46
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CALCIUM-BASED GREASES	49
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SPECIAL GREASES	50

YUKO LITOPLEX EP NEW

Multi-purpose complex lithium lubricants



SPECIFICATIONS

NLGI 00, 0, 1, 2, 3

ENABLED PACKING

17,5 kg 170 kg

TEMPERATURE RANGE



This lubricant is intended for various conditions of application, with high antiwear and antiscuff characteristics. It provides high water-resistance as well as excellent stability under high loads and temperatures. The lubricant has high level of chemical stability and provides reliable corrosion protection.

It is recommended for application in all main types of industrial equipment, automobile industry, construction, agriculture, sea transport, mining industry, etc. The product is also applied in motor cars and trucks, taxi stations, as well as recommended to be applied in paper machines, rolling mills, and sugar mills. The lubricant can be used as multi-purpose lubricant for wheel bearings, chassis components, cardan cross-pieces, hub bearings, ball joints, and chain greasing in automobile industry. It is also appropriate for greasing water pump bearings, electrical motors, mechanical lathes, transmissions, connective and multi-purpose components.

BENEFITS

- Various conditions of application;
- Very good mechanical stability;
- High load capacity;
- Excellent corrosion protection;
- Wide temperature range of application;
- Improved interval of lubricant replacement;
- Good antioxidant stability;
- High wash-out resistance;
- High antiwear properties;
- Lubricants with consistence class according to NLGI 00 and NLGI 0 are appropriate for application in centralized lubricating systems and in high-loaded gears.

TYPICAL CHARACTERISTICS

	EP-00	EP-0	EP-1	EP-2	EP-3
Dropping point, °C, min	250	255	260	265	270
Penetration, mm•10 ⁻¹ , within limits	400–430	355–385	310–340	265–295	220–250
Effective viscosity at -20°C, Pa•s	392	755	910	1023	1488
Colloid stability, %	14,8	12,6	10,3	8,1	5,5
Evaporation, %	0,98	0,68	0,56	0,48	0,29
Tribological properties at four-ball machine, N:					
Welding load (Lw)	3283	3283	3283	3283	3479
Critical load (Lc)	980	1098	1166	1235	1303
Load wear index (LWI)	440	465	519	552	588



LITOL-24

A universal multipurpose antifriction waterproof grease

- 375 g
- 400 g
- 800 g
- 4,5 kg
- 9 kg
- 17,5 kg
- 170 kg



Used for lubrication of friction units in wheeled and tracked vehicles, industrial equipment and ship machinery such as rolling and friction bearings of all types, hinges, gear and other transmissions, friction surfaces of industrial machinery, electric machines etc. Temperature range -40 °C ... + 120 °C.

Produced from thickened petroleum oils blend with 12-hydroxy-stearic acid lithium soap with additional viscosity and antifriction additives.

SPECIFICATIONS

NLGI 3

TYPICAL CHARACTERISTICS

Dropping point, °C	198
Penetration at 25°C, $\mu\text{m}\times 10^{-1}$	220
Tensile strength at 20°C, Pa	700
Colloid stability, %	8,0
Volatility at 120°C, %	1,5

BENEFITS

- A universal multipurpose grease for lubrication of friction units of all types;
- Has good conservation properties;
- Extends the period of regular lubrication;
- Allowed to be used in closed nodes (car wheel hubs, water pumpsbearings etc.) as a substituted for general-purpose lubricants;
- High colloidal, chemical and mechanical stability;
- Variety of packing types, package volumes;
- Litol-24 grease is the finalist of "100 best goods of Ukraine" competition;
- Conforms to GOST.

CIATIM-201

Special antifreezing and high-heat grease



- 800 g
- 17,5 kg

Used for lubrication of friction units of precision instruments in aviation, electromechanic and other equipment. CIATIM-201 grease remains effective for a long time within the temperature range from -60°C to +90°C. In respect to low-temperature properties, CIATIM-201 grease is one of the best in Ukraine.

SPECIFICATIONS

NLGI 2

TYPICAL CHARACTERISTICS

Effective viscosity at -50°C with average gradient of the strain rate 10 c1, Pa•s, max	1000
Tensile strength at 50°C, Pa, min	500
Dropping point, °C	196
Colloid stability, %	22

BENEFITS

- The grease does not thicken under high temperatures or during storage;
- Grease suitable for friction units of all types;
- Guaranteed shelf life – 5 years.

SHRUS-4 (NLGI 2, EP2)

Automotive grease with molybdenum disulphide



■ 375 g

Used for lubrication of constant velocity joints (SHRUS) in front-driven and all-wheel drive cars. Used for lubrication of ball double row bearings as well, which are used in wheel sets of domestic and imported cars.

The grease is produced based on Lithium hydroxystearate, improved with extreme pressure, anti-oxidizing and antifric-tion additive.

SPECIFICATIONS

EP 2

TYPICAL CHARACTERISTICS

Dropping point, °C	202
Penetration at 25°C, $\mu\text{m} \times 10^{-1}$	265
Tensile strength at 20°C, Pa	620
Colloid stability, %	12
Volatility at 120°C, %	1,5

BENEFITS

- Superior anti-wear and extreme pressure properties;
- Good water resistance;
- High mechanical and oxidation stability;
- Low volatility;
- Extends regular lubrication period;
- Wide temperature range of application.

GREASE 158 (NLGI 2)

Special lithium grease for electric equipment bearings



■ 400 g

■ 800 g

Used for lubrication of roller bearings in automotive and tractor electric equipment, needle bearings of cardan joints crosspieces, friction joints of wipers of passenger cars and trucks, other vehicles.

Represents the soft grease with smooth texture. Special colouring agent is copper phthalocyanine, contained in grease serves as thickener, oxidation inhibitor, anti-wear and extreme pressure additive, colouring the grease blue.

SPECIFICATIONS

NLGI 2

TYPICAL CHARACTERISTICS

Dropping point, °C	195
Penetration at 25°C, $\text{mm} \bullet 10^{-4}$ within	275
Shear strength at 50°C, Pa	210
Critical load (P _K), N, min	617

BENEFITS

- Has good anti-wear and anticorrosion properties;
- Effective within extended temperature range;
- Has good mechanical and thermal stability;
- Grease colour serves as indicator;
- Free of lead and other hazardous metals.

EP-1L (NLGI 2) / EP-1Z (NLGI 1)

Anti-friction, waterproof industrial grease



170 kg

Used for lubrication of rolling mills bearings, and other friction units of metallurgical equipment with centralized lubrication system.

SPECIFICATIONS	EP-1L	EP-1Z
	NLGI 2	NLGI 1

TYPICAL CHARACTERISTICS	EP-1L	EP-1Z
Dropping point, °C	95	90
Penetration at 25°C, $\mu\text{m} \times 10^{-1}$	280	320
Colloid stability, %	9	10
Viscosity at 0°C with average gradient of the strain rate $10^{-5} \text{ Pa} \cdot \text{s}$, max	108	80

BENEFITS

- Has improved lubricating properties;
- Has improved pumpability in centralized systems;
- Has high resistance to water wash-out.

GRAPHITE GREASE

General-purpose calcium based grease

375 g
800 g
9 kg
170 kg



Used for lubricating of heavy-loaded sliding friction units of low-speed mechanisms, springs, tractor and machines suspensions, jacks, open gears etc.

Produced from medium viscosity petroleum oils blend, thickened by hydrated fatty acids calcium soap of vegetable and animal origin, with added graphite acting as solid lubricant.

SPECIFICATIONS
NLGI 2

TYPICAL CHARACTERISTICS	
Dropping point, °C	81
Penetration at 25°C, $\mu\text{m} \times 10^{-1}$	265
Tensile strength at 20°C, Pa	170
Colloid stability, %	4

BENEFITS

- Good anti-wear and extreme pressure properties;
- Can be successfully used in severe conditions;
- Optimum corrosion protection at high loads;
- Low friction coefficient due to the presence of solid particles;
- Water and dust protection;
- Conforms to GOST.

SOLIDOL EXTRA

General-purpose calcium based grease

375 g
400 g
800 g
4,5 kg
9 kg
17,5 kg
170 kg



Used for lubrication of rough friction units in machines and mechanisms of vehicles, agricultural equipment, manual and other tools, screw and chain drives, low-speed gear reducers etc. Temperature range: -25°C ... +65°C.

Produced from medium viscosity petroleum oils blend, thickened by hydrated fatty acids calcium soap of plant and animal origin.

SPECIFICATIONS
NLGI 2/3

TYPICAL CHARACTERISTICS	
Dropping point, °C	81
Penetration at 25°C, $\mu\text{m} \times 10^{-1}$	260
Tensile strength at 20°C, Pa	280

BENEFITS

- Has superior viscosity-temperature properties;
- Less compacted during storage;
- High colloidal, chemical and mechanical stability;
- Good anti-wear and extreme pressure properties;
- Variety of packing types, package volumes;
- Conforms to GOST.

PVL

CVL

IND

GRS

SERVICE

CIATIM-201

Special antifreezing and high-heat grease

800 g



Used for lubrication of friction units of precision instruments in aviation, electromechanic and other equipment. CIATIM-201 grease remains effective for a long time within the temperature range from -60°C to +90°C. In respect to low-temperature properties, CIATIM-201 grease is one of the best in Ukraine.

SPECIFICATIONS

NLGI 1/2

TYPICAL CHARACTERISTICS

Effective viscosity at -50°C with average gradient of the strain rate 10 c1, Pa•s, max	610
Tensile strength at 50°C, Pa, min	392
Dropping point, °C	240
Penetration at 25°C, mm•10 ⁻¹	315

BENEFITS

- The grease does not thicken under high temperatures or during storage;
- Grease suitable for friction units of all types;
- Guaranteed shelf life – 5 years.

UNIOL 2M1 NEW

UNIOL 2M2 NEW

Special grease

17,5 kg

170 kg



The special grease is designed to lubricate mechanisms operating under heavy specific loadings: friction units of industrial equipment, tunnel furnaces, hot conveyors, mining equipment, motor-and-tractor, agricultural equipment, urban electric transport, pottery industry. It is mainly applied for metallurgical equipment.

SPECIFICATIONS

UNIOL 2M1

UNIOL 2M2

NLGI 1

NLGI 0

TYPICAL CHARACTERISTICS

UNIOL 2M1

UNIOL 2M2

Appearance:	Brown homogeneous grease	
Effective viscosity at 0°C	100	100
Shear strength at 50°C	450	250
Dropping point, °C, min, не ниже	267	246
Colloid stability, %	5,13	9,0
Volatility at 100°C per 1h	0,63	0,63
Penetration at 25°C with mixing, mm•10 ⁻¹	330	380

BENEFITS

- UNIOL 2M1 for manual charging;
- UNIOL 2M2 for centralized charging;
- High anti-ageing and protective properties especially under heavy loadings ;
- Available with anti-ageing and EP additives;
- Long lifetime;
- Wide temperature range of use.

1-13 (NLGI 3/4) NEW

Universal antifriction grease

17,5 kg

170 kg



Used for lubrication of various rolling bearings, less frequently – friction bearings, motor bearings, wheel hubs of obsolete cars.

SPECIFICATIONS	
NLGI 3/4	
TYPICAL CHARACTERISTICS	
Effective viscosity at 0°C	350
Shear strength at 80°C	300
Dropping point, °C, min,	140
Colloid stability, %	10
Volatility at 100°C per 1h	0,8
Penetration at 25°C with mixing, mm×10 ⁻¹	220

LZ-TSNII NEW

Special railway grease

170 kg



Used for cylindrical roller bearings of axle-bearings, improving their operating conditions.

Produced from mineral oils blend, thereby grease has superior low-temperature properties, enabling operation in friction units under extreme conditions up to temperatures down to -60°C.

SPECIFICATIONS	
NLGI 3	
TYPICAL CHARACTERISTICS	
Effective viscosity at 0°C	398
Shear strength at 50°C	370
Dropping point, °C, min	145
Colloid stability, %	20
Volatility at 100°C per 1h	2,3
Penetration at 25°C with mixing, mm×10 ⁻¹	240

ZHRO (NLGI 3) NEW

Special railway grease

17,5 kg

170 kg



Used for lubrication of friction units with rolling bearings of the locomotives, diesel trains, multiple-unit train, in traction motor bearings.

Provides 400000 km of operation without replacement and refilling for electric locomotives and diesel units.

SPECIFICATIONS	
NLGI 3	
TYPICAL CHARACTERISTICS	
Effective viscosity at -30°C	1750
Shear strength at 50°C	810
Dropping point, °C, min	202
Colloid stability, %	9,5
Volatility at 100°C per 1h	1,2
Penetration at 25°C with mixing, mm×10 ⁻¹	230

STP-3T NEW

Special railway grease

170 kg



Semifluid grease for lubrication of gear transmissions of locomotive traction gearboxes.

Produced from resinous residues and distillate oil transmix, with addition of anti-wear and polyfunctional additives, providing fault-free operation of loaded units, and extreme pressure properties.

BENEFITS	
<ul style="list-style-type: none"> • Contains anti-wear and polyfunctional additives set; • Provides fault-free operation of loaded units; • Has good extreme pressure properties; • Wide temperature range of application. 	

SHAHTOL-UT NEW

Special gear grease

180 kg



Antifriction gear grease for underground equipment of coal mines, gear transmissions of mining equipment, reducers of agricultural equipment, light- and medium loaded equipment of industrial facilities: exposed gear transmissions and reducers.

Produced by petroleum oil thickening with oxidized petrolatum acids calcium soap with addition of anti-wear and extreme pressure additives.

BENEFITS	
<ul style="list-style-type: none"> • Good water resistance; • Optimum anti-wear and extreme pressure properties; • Sufficient mechanical stability. 	

Cannon grease NEW

Special preservation grease

1,6 kg

16,5 kg



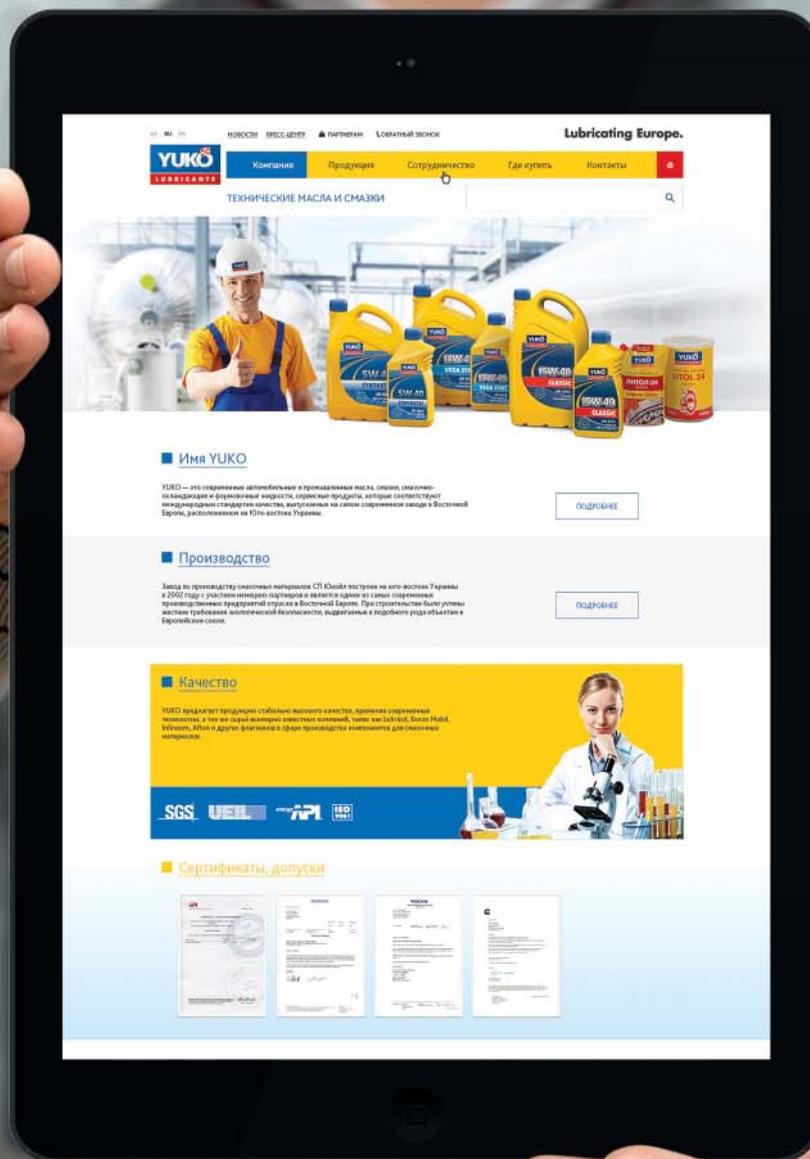
The grease is intended to protect the metal articles against corrosion, to prevent the ferrous and nonferrous metals from rusting, to preserve metal articles and mechanisms in conditions of storage warehouse at temperature range from -50°C to +50°C.

SPECIFICATIONS	
NLGI 5/6	
BENEFITS	
<ul style="list-style-type: none"> • Odor free; • Storage term is 10 years; • Ultra light-coloured base; • Reliable corrosion protection. 	

SERVICE

SERVICE
PRODUCTS





WEBSITE OF YUKO TRADEMARK

On the website of the YUKO trademark you may find the detailed information about our company, full range of our products, main cooperation principles, references to our partners.
Be the first learning the news. Welcome to our website www.yuko.eu.



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TOSOL-40

Low-freezing cooling fluid



1kg

5kg

200kg

Intended for filling into the lubricating systems of all types, incl. made of aluminium, operating at temperatures up to -40°C .

Based on ethylene glycol with corrosion, antifoam and stabilizing additives.

TYPICAL CHARACTERISTICS

Density at 20°C , g/cm^3	1,06
Corrosive effect on metals, $\text{g}/\text{v}2$ day	stands
Pour point, $^{\circ}\text{C}$	-39

BENEFITS

- Effective engine cooling;
- Cooling system overheat, freezing, scale and corrosion protection;
- Compatibility with rubber parts.

SNEGIR-33

Winter windshield fluid.
Concentrate



2,5L

Windshield fluid concentrate for windshield washer tanks perfectly cleans car windshields without leaving stroke marks at ambient temperatures down to -33°C .

Applied in undiluted form at ambient temperature from -25°C to -33°C .

In warmer weather, should be diluted with water in a ratio specified on the packing.

For dilution, it is recommended to use soft tap water, boiled or distilled water.

Usage procedure: Fill the concentrate into the washer tank, add water in the required ratio. For washer tank unfreezing use undiluted. Do not use in engine cooling system..

TYPICAL CHARACTERISTICS

Density at 20°C , kg/m^3 ; , max	926,4
Chilling point, $^{\circ}\text{C}$, max	-34

BENEFITS

- Non-hazardous composition based on plant oil;
- Effectively removes dirt, ice, salt without leaving stroke marks;
- Protects windshield wiper nodes against icing;
- Prevents washing system corrosion;
- Neutral to paint coating, chrome, rubber and plastic;
- Unfreezes ice in washer tank;
- Has a good flavour.

Diesel ANTIGEL

Pour-point depressant for diesel fuel



400 g

20L

The additive provides diesel fuel efficiency (pumpability and filterability) at temperatures down to -31°C and prevents wax crystal growth in fuel at low temperatures.

Application method

Mix the additive with diesel fuel at temperature above 0°C in the ratio of 1:1000 (1mL of additive per 1L of fuel) by pouring it into tank before fuel filling. For dosing, the sealing cap may be used (5mL) at the rate of 1 cap per 5L of fuel or 1 pack (400mL) per 400L of fuel..

TYPICAL CHARACTERISTICS

Density at 20°C , kg/m^3	894
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BENEFITS

- Provides quick engine start in frosty weather, engine efficiency and reliable operation;
- Improves diesel fuel filterability;
- May be used for any diesel fuel;
- Simple application, mixed naturally;
- High-scale response to diesel fuel.

SPECIAL PRODUCTS (SP)

NAME	STANDARDS	PROPERTY DESCRIPTION
SPECIAL ENGINE OILS FOR PASSENGER VEHICLES		
SEMISYNTHETIC PLUS 5W-40	SAE 5W-40, API SL/CF	The new-generation synthetic blend engine oil is designed for gasoline and diesel engines of the advanced passenger vehicles models and applied during all seasons.
MEGA 15W-40	SAE 15W-40, API SL/CF	Mineral oil with the highest performance properties is used for engines of the advanced passenger cars and minibuses and applied during all seasons.
FORMULA 15W-40	SAE 15W-40, API SJ/CF-4	All seasoned mineral engine oil of extra class is used for gasoline and diesel engines with multi-valves, turbo-charge and injector systems of the passenger vehicles and minibuses.
STANDART 15W-40	15W-40, API SF/CD	All seasoned mineral engine oil with synthetic components is used for middle-powered and high-powered diesel engines, naturally aspirated and supercharged engines of cars, minibuses and trucks.
M-bz /12 G ₁	SAE 15W-30, API SF/CC	All seasoned mineral doped engine oil is designed for high-powered gasoline engines working in heavy conditions of thermal loads and opposite changes of operation modes.
SPECIAL TRANSMISSION OILS FOR PASSENGER VEHICLES		
TM-4 80W-90	SAE 80W-90, API GL-4	The most used all seasoned oil is applied for mechanical transmissions of the passenger vehicles including new models and completely meets requirements of API GL-4 specification.
TM-4 80W-85	SAE 80W-85 API GL-4	All-seasoned transmission oil is used for front-wheel drive vehicles and mechanical gears of all types, where application of API GL-4 oils is recommended.
SPECIAL ENGINE OILS FOR MARINE, LOCOMOTIVE AND STATIONARY ENGINES		
M-20G2	SAE 50, API CC	The oil is designed for marine and stationary engines of DN 23/2-30 type.
M-20E70	SAE 50, API CF-4	It is designed to oil cylinders of main marine diesel high-powered engines running on distillate fuel or high-sulphur heavy fuel.
M-14 DTCL 30 (CD 40)	SAE 40, API CD	It is designed to oil medium-speed trunk-piston marine diesel engines with circulating and combined lubrication system when operated on heavy fuel with proportion of sulphur more than 2.5%.
M-14 DTCL 40 (CD 40)	SAE 40, API CD	It is designed to oil medium-speed trunk-piston marine diesel engines with circulating and combined lubrication system when operated on heavy fuel with proportion of sulphur at more than 2.5%.
MC -20 P (SV 50)	SAE 50, API CB	The oil is designed for marine, locomotive and stationary engines of 12CHN 18/20 type operating on low sulphur fuel.
SPECIAL TRANSMISSION OILS FOR COMMERCIAL VEHICLES		
TRANS 85W-140	SAE 85W-140, API GL-5	It is used all year round to oil heavy loaded hypoid gears, distribution gearboxes, steering mechanisms.
TSp -14hyp	SAE 90, API GL-5	It is designed to oil hypoid gears of trucks (mainly GAZ family) and special-purpose vehicles as all-seasoned transmission oil for temperate climate areas.
TSp -10	SAE 80, API GL-3	The oil is used in winter season for spur gear, spiral bevel and worm gears running under contact stresses up to 1500-2000 Mpa.
TSp -15K	SAE 85W-90, API GL-3	It is used for gear box and main gear (double-reduction gear with cylindrical and spiral bevel toothed wheels) of KamAZ trucks and others.
TM-3 HYPOID SAE 140	SAE 140, API GL-3	It is designed to oil hypoid gears of cars and trucks of old designs.
SPECIAL HYDRAULIC OILS		
HYDROL HV 32	ISOHV, DINHVLP, ISO 32	It is designed for hydraulic systems of different domestic and imported equipment that requires high purity grade oil.
HYDROL HV 46	ISOHV, DINHVLP, ISO 46	It is designed for hydraulic systems of different domestic and imported equipment that requires high purity grade oil.
HYDROL HM 32	ISO HM, DIN HLP, ISO 32	It is designed for hydraulic systems of different domestic and imported equipment that requires high purity grade oil.
ESh	ISO HH, ISO 32	It is designed for hydraulic control systems of high loaded mechanisms (walking excavators and other similar machines).
MGE-10A (ISO 15)	ISO HM, ISO 15	It is designed for hydraulic systems of marine equipment and movable ground-based machines operating at wide temperature range.
SPECIAL INDUSTRIAL HYDRAULIC OILS		
IGP -72 (HM 100)	ISO HM, ISO 100	It is used in hydraulic systems of heavy pressure equipment for pinion gearboxes, middle loaded toothed and worm gear reducers.
IGP -91 (HM 150)	ISO HM, ISO 150	It is designed for hydraulic systems of different domestic and imported equipment that requires high purity grade oil.
IGP -114 (HM 220)	ISO HM, ISO 220	It is designed for hydraulic systems of marine equipment and movable ground-based machines operating at wide temperature range.
SPECIAL INDUSTRIAL OILS		
I-30A	ISO HH, ISO 46	Plain mineral oil for equipment which working conditions require no anti-ageing and anticorrosion properties.

NAME	STANDARDS	PROPERTY DESCRIPTION
GEAR REDUCER OILS		
REDUS CLP 32	ISO 32	Gear reducer oils Redus CLP are applied in industrial gear reducers (in process drivers, conveyors, handling machinery), metallurgy (iron and steel industry, circulating lubrication systems of rolling mill drives), mines (enclosed gear reducer, open toothed gears, angle of slides, ropes), high speed drivers (high-speed rotating equipment, turbine installations, centrifugal compressor).
REDUS CLP 46	ISO 46	
REDUS CLP 68	ISO 68	
REDUS CLP 100	ISO 100	
REDUS CLP 150	ISO 150	
REDUS CLP 320	ISO 320	
REDUS CLP 460	ISO 460	
REDUS CLP 680	ISO 680	
SPECIAL ENERGY OILS		
Kp-8S (ISO 46)	ISO 46	It is applied to lubricate turbochargers connected to heavy duty reducers.
K-12 (ISO 100)	ISO 100	It is used in piston compressors of middle and low pressure at the ambient temperature up to -25°C.
K-19 (ISO 220)	ISO 220	It is used in piston compressors of middle and high pressure, if sulfur enriched oils are required.
Tp -46 (ISO 68)	ISO 68	It is used in marine steam-turbine plants (geared-turbine installations) and other auxiliary marine mechanisms with hydraulic actuator.
SPECIAL OILS FOR ROLLING MILLS		
PS -28	ISO 460	High viscosity oil is designed for gear reducers and heavy-duty unites of rolling mill equipment.
I 460PV (ISO 460)	ISO 460	The oil is designed to lubricate film-lubrication bearings of the rolling mills.
SPECIAL OIL FOR SLIDEWAYS		
INSp -40 (ISO 68)	ISO 68	The oil is used to lubricate low and middle loaded horizontal slideways of metal cutting tools.
INSp -65 (ISO 100)	ISO 100	The oil is used to lubricate middle and heavy loaded horizontal and vertical slideways of metal cutting tools.
INSp -110 (ISO 220)	ISO 220	The oil is used to lubricate middle and heavy loaded horizontal and vertical slideways of metal cutting tools.
OTHER SPECIAL OILS		
Axle lubricant 3		It is used to lubricate wheel pair axle necks of railway rolling stocks in winter period.
Cylinder lubricant 11	ISO 100	It is used to lubricate hot parts of steam powered engines (at ships and stationary machines, steam hammers and etc.)
Cylinder lubricant 24	ISO 460	It is used to lubricate cylinders and piston valves of steam powered engines, spur gears operating at high subgrade stresses and low speeds for heavy loaded worm gears at speed level up to 3 m/s.
MS-8p (ISO 15)	ISO 15	It is used in gas and turbine plants to oil and remove heat from bearings.
MGD-14m (ISO 150)	ISO 150	It is designed to lubricate motors and compressor part of gas and motor-driven compressors 8GK, 8GKM, 10GKM, 10GKN and similar plants running on natural gas.
MGP -10 (ISO 10)	ISO 10	It is used as a working liquid in hydraulic systems of telescopic and cam-and-lever shock absorbers of the vehicles.
MGP -12 (ISO 15)	ISO 15	It is used as a working liquid in telescopic struts and shock absorbers of trucks and passenger vehicles.
SGT		The oil is used to lubricate and cool reducers and bearings of marine gas turbines
SPECIAL GREASE LUBRICANTS		
CIATIM-203	NLGI 2	This antifriction grease is used to lubricate mechanisms operating under high specific loads at the temperatures from -50°C to +90°C in toothed and worm gear reduction units, sliding supports, rotating bearings and etc.
GRAPHILAN (NLGI 0)	NLGI 0	The grease is designed to oil open pinion gearboxes of mining milling plants, in lubrication systems of drive gear of open-pit excavators, coarse heavy loaded friction units with the centralized lubrication system.

Additionally to the products shown in the catalogue the Industrial Oil Production Plant JV “Yukoil” produces customized oils in accordance with special requirements of our customers including orders of the private-labels.

TYPE OF PACKING

— oils — greases



CANISTER 1l

Packing material – high pressure polyethylene. The lid unit equipped with soldered steel membrane to control the initial opening and ensure leak proof protection. Polyethylene multipage label is erasure resistant. The packaging itself is a handy sort of sales unit for refilling and is a standard packaging of lubricants for small machinery.

GROUP PACKAGING:

corrugated box x12 units, palette (1200 x 800) x 40 corrugated boxes.

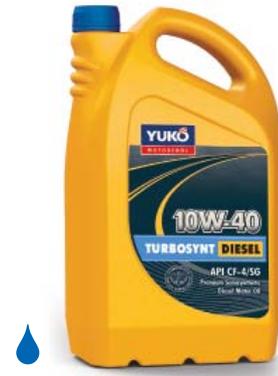


CANISTER 4l

Packing material – high pressure polyethylene. The lid unit equipped with soldered steel membrane to control the initial opening and ensure leak proof protection. Polyethylene multipage label is erasure resistant. Packaging contains sufficient oil volume for wide variety of car models.

GROUP PACKAGING:

corrugated box x 4 units, palette (1200 x 800) x 29 corrugated boxes



CANISTER 5l

Packing material – high pressure polyethylene. The lid unit equipped with soldered steel membrane to control the initial opening and ensure leak proof protection. Polyethylene multipage label is erasure resistant. Packaging contains sufficient oil volume for wide variety of car models with the refilling reserve. 5L+5L is quite popular for oil filling in microbuses.

GROUP PACKAGING:

corrugated box x 4 units, palette (1200 x 800) x 27 corrugated boxes



TIN PAIL 20l

Packing material – lacquered tin with lithography. Plastic label is erasure resistant. Bigger volume is more suitable in all aspects for commercial transport if compared to conventional packing forms. The bucket is equipped with retractable dosing nozzle lid to control initial filling and with steel handle.

GROUP PACKAGING:

palette block (1200 x 1200) x 48 buckets.



CANISTER 20l

Packing material – high pressure polyethylene. Polyethylene multipage label is erasure resistant. The can contains the handle for carrying. The YUKO company logo is pressed on the can to avoid fraudulent. Bigger volume of the can is targeted to commercial fleet and wholesalers.

GROUP PACKAGING:

palette block (1200 x 1200) x 40 cans.



BARREL 200l

Packing material – rolled steel with powder lacquered paint cover. Polyethylene multipage label is erasure resistant. The drum equipped with special closure unit to control the initial opening. Can be supplied with hand pump to extract oil out. Traditional form of packaging for big customers.

GROUP PACKAGING:

palette block (1200 x 1200) x 4 drums.



OILBOX 20l

OILBOX is new for Ukrainian market technology of oil package combining convenient transportation, storage and simple utilization. OILBOX consists of internal multi-layer leak-proof 20 l vessel made of thick polyethylene and external pasteboard shell making package convenient for transportation and application.

MULTIPLE PACKAGE:

Euro palette (1200x800) x 21 or 42 OILBOX for 420 l and 840 l correspondingly.



DOYPACK 0,375kg

The type of flexible leak proof packaging in a shape of plastic bag with flexible bottom that allows the filled packaging to stand vertically. The variety of YUKO branded greases in doypacks is equipped with nozzle to ensure dosing and storage of the grease.

GROUP PACKAGING:

corrugated box x 20 units
palette (1200 x 800) x 40
corrugated boxes.



DOYPACK 2,5l

The type of flexible leak proof packaging in a shape of plastic bag with flexible bottom that allows the filled packaging to stand vertically. Equipped with nozzle to ensure dosing and storage as well as with handle to carry.

GROUP PACKAGING:

corrugated box x 18 units
palette (1200 x 800) x 50
corrugated boxes.



FLACON 400ml

The can is made of varnished tin with lithography. The can is provided with plastic dosing cap with first opening control. Convenient packing for consumer market.

GROUP PACKAGING:

carton box x 18 units
palette (1200 x 800),
palette x 50
cartons.

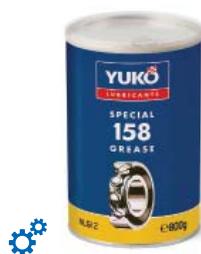


TIN CAN 400g

Packing material – lacquered tin with imprinted label. Easy open technology used in this type of can very fast became widely demanded on the market. Additional transparent plastic lid protects the content of the can after it has been once opened.

GROUP PACKAGING:

corrugated box x 24 units;
palette (1200 x 800) x 36
corrugated boxes.



TIN CAN 800g

corrugated box x 12
units; palette (1200 x
800) x 36
corrugated
boxes.



PLASTIC PAIL 4,5kg

Packing material – high pressure polyethylene. The packaging is equipped with erasure resistant label. It is a widely used traditional packaging for B2C and B2B customers. This type packaging goes with protective element to control initial opening. The bucket is with handle to carry.

GROUP PACKAGING:

palette (1200 x 800) x 44
units.



PLASTIC PAIL 9kg

palette (1200 x 800) x 44
units.

TABLE OF COMPLIANCE

YUKO TM PRODUCTS	CONFORMITY
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MOTOR OILS FOR PASSANGERS TRANSPORT (PVL)

SYNTHETIC 5W-40	Mobil Super 3000 X1 5W-40 / Lotos Traffic Pro 5W-40 / MOL Dynamic Prima 5W-40 / THK Magnum Ultratec 5W-40 / Gazpromneft Premium 5W-40
SEMISYNTHETIC 10W-40	SHELL Helix Plus SAE 10W-40 / Lotos Semisynthetic 10W-40 / MOL Dynamic Max 10W-40 / THK Magnum Semisynthetic 10W-40 / Gazpromneft Premium 10W-40
VEGA SYNT 10W-40	SHELL Helix SAE 10W-40 / Lukoil Super 10W-40 / Mannol Special 10W-40 / THK Magnum Motor Plus 10W-40 / Gazpromneft Super 10W-40
DYNAMIC 10W-40	Lukoil Stadard 10W-40 / Gazpromneft Standart 10W-40
CLASSIC 15W-40	ESSO Extra 15W-40 / Lotos City 15W-40 / MOL MSE 15W-40 / THK Magnum Standart 15W-40 / Gazpromneft Standart 15W-40
PRAKTIK 20W-50	PENNASOL Multigrade Super HD SAE 20W50 / Lotos City Standartd 20W-50 / MOL Botond 20W-50 / THK Magnum Standart 20W-50 / Gazpromneft Standart 20W-50

OILS FOR SMALL MACHINERY (PVL)

SCOOTER SYNT 2T (FC)	MOL Dynamic Sprint 2T / Mobil Extra 2T / Esso 2T Spesial / TOTAL SCOOTER 2T / Motorex Scooter 2T
SUPER SYNT 2T (FC)	Castrol Garden 2T / Motul Garden 2T HI-TECH / Shell Super 2T / Mobil Extra 2T / TOTAL SPECIAL 2T
MOTOMIX 2T (TC)	Lotos Mixol T / Mannol 2-TAKT UNIVERSAL / MOTUL MOTO Mix 2T / Total Special 2T / Lukoil Moto 2T
MASTER 4T SAE 30	MOL Dynamic Garden 4T 30 / Castrol Garden 4T SAE 30 / Motul 4T GARDEN SAE 30 / Husqvarna WP 4T SAE-30 / Statoil GardenWay 4T SAE-30
MASTER SYNT 4T 10W-30	ELF GARDEN 4T / MOL Dynamic Garden 4T 10W-30 / Shell Super 4T / Mobil 4T 10W-30 / Oleo-Mac 4T SAE 10W30
SEMISYNTHETIC 4T 10W-40	MOL Dynamic Moto 4T Scooter 10W-40 / MOTUL SCOOTER 4T 10W40 / Castrol Actevo X-tra 4T 10W-40 / Mobil 1 Racing 4T / SHELL Advance Ultra 4T 10W-40
PILAN (ISO 100)	ELF FORESTELF PRO 100 SUPER BOIS / Husqvarna Veg Oil / Shell Chain Saw Oil / STIHL Forest Plus / BP Sylvoil Chain-N-Bar

TRANSMISSION OILS FOR PASSANGERS TRANSPORT (PVL)

ATF III	Total Fluide G3 / Mobil ATF Dexron III / Shell Donax TX Dexron III
ATF IID	Total Fluide ATX / SHELL DONAX TA IID / Mobil ATF 220
TRANS 75W-90	LUKOIL TRANS TM-4 75w-90 GL-4 / PENNASOL Multipurpose Gear Oil GL-4 SAE 75w90 / Bp Energear SGX 75W-90
TAD-17a	Total EP 85W-90 / Liqui Moly Getriebeoil SAE 85W-90 GL4 / WOLF 85W-90 GL 4

MOTOR OILS FOR COMMERCIAL TRANSPORT (CVL)

MEGA DIESEL 10W-40	AGIP Sigma Super TFE 10W/40 / Mobil Delvac MX Extra 10W-40 / BP Vanellus Multi-Fleet 10W-40 / Gazpromneft Diesel Premium 10W-40 / Лукойл авангард ультра SAE 10W-40
MEGA DIESEL 15W-40	Castrol Tecton Global SAE 15W-40 / Fuchs Truck Plus SAE 15W-40 / Mobil Delvac MX 15W-40 / Shell Rimula X SAE 15W-40 / Shell Rimula Super SAE 15W-40 / BP Vanellus C6 Global SAE 15W-40
TURBOSYNT DIESEL 10W-40	Revolux D1 10W-40 / Gazpromneft Diesel Extra 10W-40 / ЛУКОЙЛ АВАНГАРД 10W40
SUPER DIESEL 15W-40	Rimula C SAE 15W-40 / SHELL Rimula B SAE 15W40 / Mobil Super 1000 X1 15W-40 / BP Vanellus C4 Global SAE 15W-40 / Gazpromneft Diesel Extra 15W-40 / ЛУКОЙЛ АВАНГАРД 15W40
TURBO DIESEL 15W-40	Shell Rimula C SAE 15w-40 / Gazpromneft Turbo Universal 15W-40 API CD / Масло ТНК Дизель Мотор 15W40
M-10DM	Delvac 1330 (Mobil) / Shell Rimula D 30 / Vanellus C3-30 (BP)
M-10G ₂ k	Delvac 1230 (Mobil) / Shell Rotella X/ Rimula C 30 / Energol HD30 (BP)
M-8V	Mobil Delvac 1320 / Shell Rimula C 20W-20

MARINE, LOCOMOTIVE AND STATIONARY ENGE OILS (CVL)

M-10G ₂ CS	CASTROL MARINE MLC 30 / TOTAL DISOLA M 3015 / EXXONMOBIL MOBILGARD 312 / SHELL GADINIA 30 / BP ENERGOL DL-MP 30
M-14G ₂ CS	CASTROL ARINE MLC 40 / TOTAL DISOLA M 4015 / EXXONMOBIL MOBILGARD 412 / SHELL GADINIA 40 / BP ENERGOL DL-MP 40
M-16G ₂ CS	EXXONMOBIL MOBILGARD 512
M-14V ₂	Shell Rotella X/ Rimula C 40
MT-16P	Shell Rotella X/ Rimula C 40
MS-20 (CB 50)	Mobil Delvac 1350 / Shell Rotella X/ Rimula C 50
M-20E70	Mobil Mobilgard 570 / Shell Alexia 50
M-14DCL30 (CD 40)	Mobil Mobilgard 434 / Argina T 40
M-20G ₂	Mobil Delvac 1350 / Mobilgard 512* / Shell Rotella X/ Rimula C 50

TRANSMISSION OILS FOR COMMERCIAL TRANSPORT (CVL)

TM-3	Dentax G 80W-90
TM-5	Castrol EPX SAE 80W-90 / Total Transmission TM 80W-90 / Mobil Mobilube HD 80W-90 / Shell Spirax A 80W-90 / BP Energear Hypo SAE 80W-90
TAD-17i	Total EP B 85W-90 / Shell Spirax AX 80W-90
Nigrol-L	Shell Dentax 140
Nigrol-Z	Shell Dentax 90
TRANS 85W-140	Mobilube HD 85W140
TSp-14hyp	Mobilube GX 80W/90 / Shell Spirax GX 90
TSp-10	Mobilube GX 80W-A / Shell Spirax G 75W
TSp-15K	Mobilube GX 85W/90A / Shell Dentax G 80W-90

HYDRAULIC OILS (IND)

HYDROL HM 46	Castrol Hyspin AWS 46 / Esso Nuto H 46 / Mobil DTE 25 / Shell Tellus 46 / Neste Paine HLP 46
VMGZ (HV 15)	CASTROL HYSPIN AWH-M 15 / TOTAL VISGA 15 / EXXONMOBIL MOBIL DTE 11M / SHELL TELLUS T15 / BP BARTRAN HV15

YUKO TM PRODUCTS	CONFORMITY
A (HV 32)	Mobil ATF 200 (Mobil) / Shell Donax TM / Autran GM-MP (BP)
MGE-46V (HM 46)	Shell Tellus S 46
ESH	Mobil DTE Oil 15 M / Shell Tellus T 37
MGE-10A	Mobil Aero HF / Mobil DTE Oil 11 M / Shell AeroShell Fluid 41 / 4

INDUSTRIAL HYDRAULIC OILS (IND)

IGP-18 (HM 32)	Mobil DTE Oil 24 / Mobil DTE Oil Light / Shell Tellus S 32
IGP-30 (HM 46)	Mobil DTE Oil 25 / Mobil DTE Oil Medium / Shell Tellus S 46
IGP-38 (HM 68)	Mobil DTE Oil 26 / Mobil DTE Oil Heavy Medium / Shell Tellus S 68
IGP-49 (HM 68)	Mobil DTE Oil 18 M / Mobil DTE Oil 27 / Mobil DTE Oil Heavy / wShell Tellus S 100
IGP-72 (HM 100)	Mobil DTE 27 / Mobil DTE Oil Extra Heavy / SHELL Tellus S3 M 100
IGP-91 (HM 150)	Mobil DTE 19M / Mobilgear 600 XP 150 / Shell Morlina 150

INDUSTRIAL OILS (IND)

I-20A	Mobil DTE 11M / Shell Vitrea 32
I-40A	Mobil DTE 13M / Shell Vitrea 68
I-50A	Mobil DTE Oil Heavy / Shell Vitrea 100

ENERGETIC OILS (IND)

Tp-22S (ISO 32)	Mobil DTE Oil Light / Mobil DTE Oil 13 M / Mobil DTE 797 / SHELL TURBO OIL T 32 / BP ENERGOL THB 32
Tp-30 (ISO 46)	Mobil DTE Oil Medium 46 / Mobil Vactra Oil Medium / SHELL TURBO OIL T 46 / BP ENERGOL THB 46
T-1500	Shell Diala BX / Diala DX
HA-30 (ISO 22)	TOTAL FRIGA 2 / Mobil Gargoyle Arctic Oil 300 / SHELL CLAVUS 46 / BP ENERGOL LPT-F46
VM-4 (ISO 68)	Mobil DTE Oil Heavy / Shell Talpa G 100
KS-19 (ISO 220)	ASTROL AIRCOL PD 100 / TOTAL DACNIS P 100 / EXXONMOBIL / SHELL CORENA P 100 / BP ENERGOL RC 100
Tp-46	BP Energol RC-R 68 / Aral Cosmol TL 68 / Mobil Rarus 426 / Shell Comptella
Kp-8S	Mobil Rarus 425 / SHELL CORENA S2 R 46

COOLANT LUBRICANTS (IND)

EOM-1 (ISO 32)	Mobil Kutwell 42
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GREASES (GRS)

SHRUS-4 (NLGI 2 / EP 2)	TOTAL MULTI MOS2 / Castrol MS3 Grease / Mobil Mobilgrease Special / Shell Retinax HDX2 / Retinax EPX2
LITOL-24	ASTROL SPHEEROL EPL-2 / TOTAL EPEXA 2 / Litoplex-Mobilgrease XHP / SHELL Alvania EP 2 / Retinax EP 2 / BP ENERGREASE MM-EP2
EP-1L (NLGI 2)	Shell Luveda EP 2
EP-1Z (NLGI 1)	Alvania RL 1
SOLIDOL EXTRA	CASTROL CREASE MT / TOTAL EPEXA MO 2 / EXXONMOBIL MOBILTAC / SHELL CARDIUM / BP GREASE 21M
Grease 158	Shell Alvania RL 1
1-13	Shell Alvania RL 3
CIATIM-201	Mobilgrease BRB Zero (Mobil) / Mobilgrease 28 / Alvania EP2 Alvania grease 3 (Shell)
CIATIM-221	Mobilgrease HP 222 / Mobiltemp SHC 100
LZ-TSNII	Mobilux EP 2 / Shell Alvania EP 2
ZHRO	Mobilux EP3 / Shell Alvania RL 3

OILS FOR ROLLING MILLS

PS-28	Mobil Vacuoine 146 / Shell Vitrea M 320
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OILS FOR SLIDEWAYS

INSp-40 (ISO 68)	Mobil Vactra Oi No. 2 / Shell Tonna TX 68
INSp-110 (ISO 220)	Mobil Vactra Oi No. 4 / Shell Tonna TX 220

OTHER SPECIAL PRODUCTS

MGP-10	Shell Tellus T 15
Cylinder oil 11	Mobil DTE Oil Heavy / Shell Vitrea 100
MS-8p	Shell AeroShell Turbine 3 SP
MGD-14m	Shell Mysella R 40
SGT	Mobil DTE Oil 2 / Shell Morlina 10
CIATIM-203	Mobiltemp SHC 100
Cannon Grease	Mobilarma 798
GRAPHILAN (NLGI 0)	Shell Albida HDX 2 (MoS2) / Rhodina EP 2

OUR SUPPLIERS



OUR CUSTOMERS





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