

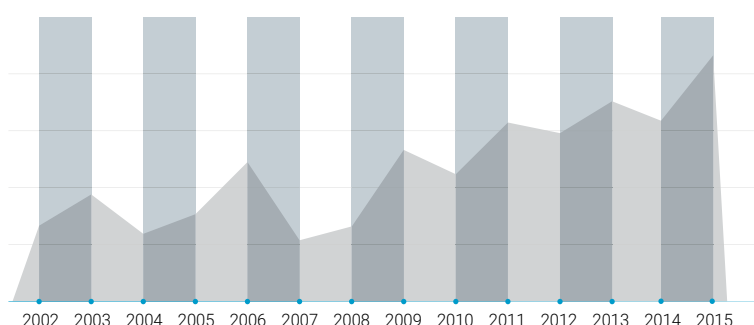


PRODUCT CATALOGUE  
RESEARCH PRODUCTION SALES



On May 14th 2010 VMPAUTO LLC joined NLGI (National Lubricating Grease Institute, [www.nlgi.org](http://www.nlgi.org)). VMPAUTO LLC became the first Russian producer whose products were recognized by leading experts in NLGI.

## VMPAUTO LLC DEVELOPMENT AT A GLANCE



## OUR PARTNERS:

BELAZ, KAMAZ, GAZ GROUP, KAAZ (MANUFACTURER OF BUSES PAZ), LIAZ, KAVZ, GOLAZ, TONAR, VOLAT.

### PRODUCED



2002	90 tons
2015	1000 tons

### PRODUCT RANGE



2002	27 items
2015	226 items

### EMPLOYEES



2002	36 employees
2015	107 employees

# LUBRICANTS ARE OUR PROFESSION



*Life would be impossible without lubricants. Everything slides, rolls or spins around us. Our mission is to create lubricants that prolong life of mechanisms, vastly improving efficiency and reducing costs on replacement and repair.*

## **Vasily Kuzmin**

PhD in Engineering  
VMPAUTO Director

For example, cost savings from the use of the metal plating grease MC-1000 only at one bus fleet company in St-Petersburg was 12.000 USD during first 6 months of 2013, thanks to the longer working life of the bearings. This saving was achieved despite of relatively high cost of the grease.

In 2012 we created an innovative brake caliper grease MC-1600, which reduces stopping distance. This is an innovative product that doesn't have analogues. The grease doesn't burn or freeze retaining its plasticity.

The grease for CV-joints prolongs the service life of even cheap units. The main advantage of this grease is that it works in extreme conditions protecting high loaded CV-joints even if the protective boot is torn.

Our main value is our specialists. They create products, technologies and equipment; one

third of our employees are experienced technical researchers.

We work with automotive assembly plants, energysaving

stations, construction and mining companies.

We are ready to develop and produce lubricants for

your own specific needs and under your own trademark.

# PRODUCTION + SCIENCE = INNOVATIONS





From the early beginning the company was focused on development and production of only original products. VMPAUTO formed scientific laboratories, modern production sites and team of specialists.

Researchers of the scientific department cope with dozens of testing methods which allow quality control and development of new products. We possess more than 20 units of laboratory equipment. Every year we renew our laboratory and acquire 2-3 new units.

On February 27th, 2014 one of the best in its category instruments was installed in the laboratory of VMPAUTO - modern rheometer Anton Paar MCR 102. It is necessary to notice that among all companies-grease developers and producers there are less than 10 that have such device in their laboratories in the world (analysis of NLGI Spokesman articles for the years 1999-2013).

Every year the laboratory creates new products, and annual turnover growth is 10-20%. In 2013 VMPAUTO LLC has

produced more than 1000 tons of products.

The company develops not only new products, but also develops production technologies, equipment and controlling systems. Thus, during organization of production site for grease synthesis we have used technologies from Germany, USA and Russia. The equipment has been put into operation in 11 months from its design.

The packaging machine "KOMAR-3" developed by engineers from VMPAUTO allows packaging of high viscosity products and printing on plastic sachets





## MC 1000

### MULTIPURPOSE METAL PLATING GREASE



MC 1000 saves costs thanks to prolonging the life of the bearings. To understand how it works we need to understand metal plating technology. Metal plating technology is the process of the formation of a thin metal film on the parts' surfaces under high pressure. This film forms thanks to micro metal particles contained within the grease. Due to this effect wear decreases significantly. Note: this grease should not be used in high- speed bearings.

CONFORMS TO DIN 51502/ DIN 51825: KPF 3 N-40, NLGI 3

### ADVANTAGES:

- Multipurpose use
- Temperature range from -40 °c to +140 °c
- Restoration effect



### INDUSTRY USE:

JSC KAMAZ, JSC LIAZ, JSC BELMAG, JSC RIAT, JSC TONAR, LINCOLN, JSC RUSAK, JSC OMZ.

Prolongs  
bearing work life  
**UP TO 5  
TIMES**

Cost savings in a fleet of 100 buses is more than 30,000 USD over a 3 years period of operation.

MC 1000 is successfully used in cars today. Over 260 000 sachets of MC 1000 were supplied in hub repair kits for different producers over the last 5 years. This means that in Russia there are 260 000 cars supplied with this grease, and that their drivers are able to forget about bearings adjustment or grease replacement.

MILEAGE IS 370 000 KM OF THE IKARUS-280.33 BUS.



Mileage is 65 000 km  
**LITOL-24 GREASE  
(ORDINARY EP3)**



Mileage is 370 000 km  
**MC 1000**

grease (without  
any replacement)





KAAZ

«... The MC 1000 grease is used in the front and rear axles produced by KAAZ JSC. Please note that the grease is recommended to be used during the guarantee period and service maintenance.» Chief engineer Aleshkin V.I



PAZ

«... in the same period of 2012 - 2013 the expense in purchasing hub bearings reduced in 4.12 times»



BELAZ

Only one tyre of this giant weights 5 tons and stands load of 100 tons.

Since 2011 the production plant BELAZ enterprise has used MC 1000 as the main grease for bearings of dumpers with carrying capacity of 320 and 360 tons. The use of this grease prolongs the bearing work life in 3 times.

# MC 1510 BLUE

## LITHIUM COMPLEX GREASE



According to the data from the Association of International Carriers ([www.asmap.ru](http://www.asmap.ru)) average loading capacity of trucks increased by 9 tons during last 20 years, and the average driving speed increased by 15 km/h. The greases with lithium thickener do not satisfy requirements of engineers and constructors any more. Extreme conditions and modes of use of machines led the way to the development of multipurpose high temperature greases. This product is now available for the end user. This great task was achieved by our specialists. Their qualified expertise has created lithium complex EP grease with a unique drop point of +350°C.

CONFORMS TO DIN 51 502 / DIN 51825 KP2/3 R-35 NLGI 2/3

### ADVANTAGES:

- Resistance to high temperature under extreme loads (up to 180°C)

### APPLICATION:

The grease is used in hub bearings in high loaded trucks, electric motors, parts of chassis, cardan cross-joints and slider bearings.



MC 1510 BLUE grease passed laboratory tests under extreme conditions. Temperatures well under 180°C and with a load of 50 000 kg/cm<sup>2</sup> the bearing worked for a period equal to 500 000 km mileage.

The braking of a loaded truck heats up the brake discs and bearings to hundreds of degrees.







Nizhnekamskshina

From the letter of the Technical Director of the Truck Tire Plant, Nizhnekamskshina: «... the use of the grease MC 1510 BLUE made possible to reduce significantly downtime in repair of the equipment like tire shapers and tire tube vulcanizers.»



Syaskiy PPM

From the letter of the Chief Engineer at CBK Syaskiy PPM: «...MC 1510 BLUE grease was used for lubricating the slider bearings of the drying cylinders of the equipment. This grease proved its high quality in comparison with world-known analogues.»



TONAR

From the letter of the Chief Engineer of MZ TONAR: «We use MC 1510 BLUE grease for lubrication hub bearings and bearings of expansion cams in axles of the TONAR semitrailers. The grease replacement frequency decreased from 80,000 to 240,000 km.»



## MC 1600

### MULTIPURPOSE BRAKE GREASE



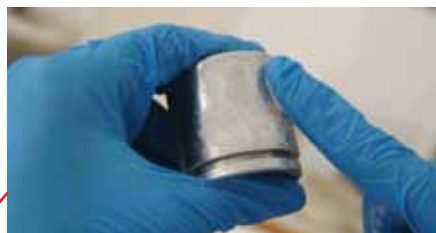
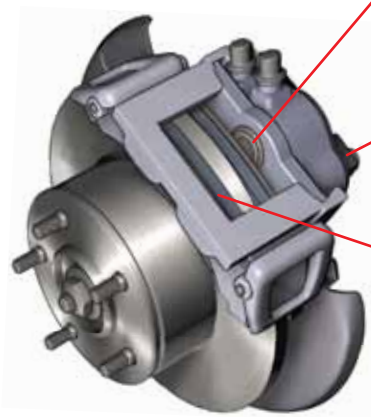
Multipurpose brake grease MC 1600 is a unique product. This grease reduces braking distance during extreme braking and so assists safe braking. The innovative nature of this grease means it has multipurpose use and it perfectly works for all parts of the caliper. That's why this grease has gained the confidence of many mechanics and official car service stations.

#### ADVANTAGES:

- Suits for ALL parts of braking systems.
- Reduces brake noise.
- Possesses high resistance to water and chemical agents.
- Protects brake pads from wear.

#### INSTRUCTION

Clean caliper parts before application of grease.



Apply a thin layer of grease (~0.4 mm) on pistons to enable smooth working.



Apply a thin layer of grease (~0.1 mm) on caliper guide pins to give protection from blocking



Apply a thin layer of grease (~0.2 mm) on the reverse of brake pads to protect from brake noise and squeal.

Multipurpose brake grease MC 1600 was successfully tested and got the approval from Scientific and Research Automotive Institute NAMI in Russia.

## 1 TEST:

### INFLUENCE OF THE GREASES ON CALIPER RUBBER SLEEVES

It is very important that the grease doesn't interact with rubber parts of the brake system. The caliper rubber sleeves of Iveco bus were treated with different greases for the brake systems. The test was carried out for a period of one month. At the end of the test we analyzed the influence of the grease on the rubber sleeves.

#### THE RESULTS ARE:

Use of copper paste (4) and synthetic grease (5) resulted in 28% of sleeves weight losses and total hardening.

Use of the lithium graphite grease (3) and synthetic grease (2) resulted in swelling of rubber sleeves and increase of their weight per 120% and 81% respectively.



Use of multipurpose synthetic grease MC 1600 (1). The caliper rubber sleeve did not change either its mass or its volume thus keeping its protective properties.

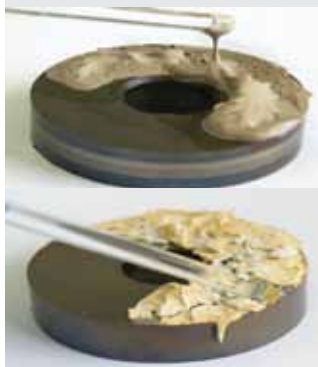
## 2 TEST:

### TEMPERATURE TEST OF GREASES FOR BRAKE CALIPERS

Multipurpose brake caliper grease MC 1600 keeps its plasticity under high and low temperatures, without influence on rubber parts and retains perfect braking ability.

Greases were kept at +250°C for 1 hour.

Greases were kept at -40 °C for 1 hour.



MC 1600 saved its plasticity and greasing properties

German ceramic grease sample dried out and crumbled



MC 1600 saved its plasticity and greasing properties.

German ceramic paste lost its plasticity and froze.

WITHOUT GREASE



MC 1600



Independent test showed that use of multipurpose grease MC 1600 reduces braking distance up to 7% (at 60 km/h).





## MC 1620

### ANTI-SQUEAL BRAKE GREASE



MC 1620 ensures mobility of caliper parts, increases effectiveness and safety of braking process..

CONFORMS TO DIN 51502/ DIN 51825: KF 3/4 U-20

#### ADVANTAGES:

- Grease components prevent braking noise, caliper blocking and uneven wear of brake pads and brake discs



## MC 1630

### GREASE FOR CALIPER SLIDE PINS



MC 1630 is ideal for lubrication of caliper slide pins including those with rubber plugs. Temperature and viscosity characteristics let grease work under extreme conditions from -50°C to +250°C.

CONFORMS TO DIN 51502/ DIN 51825: MF SI 0/1 S-50

#### ADVANTAGES:

- Prevents blocking, gumming and drying up of slide pins; provides even wear of brake pads and safe braking.
- Special grease formula does not influence rubber plugs, extend their service life



# MC 1400 NORD

## FROST RESISTANT GREASE



If you are a mechanic working at mines, this grease is for you. Specialists of VMPAUTO LLC developed grease for centralized lubricating systems and with pumping ability in temperature range from -53°C to +90°C.

NLGI 1/2.

MC 1400 NORD is approved by LINCOLN GmbH.

CONFORMS TO DIN 51502/ DIN 51825: KPFHC 1/2 K-60, NLGI 1/2

### ADVANTAGES:

- Thanks to the grease consistence class NLGI 1/2, it possesses
- high pumpability properties in centralized lubricating systems in temperature range from -53°C to +90°C.

### INDUSTRIAL USE:

RIAT JSC (New Urengoy), Kovdor JSC, IZ-Kartex



MC 1400 NORD grease was successfully tested in centralised lubricating systems in "Groenveld" Enterprise.



MC 1400 NORD grease was approved by leading German company in centralized lubricating systems LINCOLN GmbH.



## CV-JOINT MC X5

METAL PLATING CV-JOINT GREASE  
(LITHIUM BASED GREASE)



CV-JOINT MC X5 grease contains metal plating complex and additives that allow working in extreme wet and dust conditions.

CONFORMS TO DIN 51502/ DIN 51825 : KPF 2/3 N-40

### ADVANTAGES:

- High water resistance
- Long units operation
- High loads resistance



WORKS EVEN IF  
PROTECTIVE BOOT  
IS WORN

ORDER UNDER YOUR  
PRIVATE LABEL

Since 2009 "BelMag" CJSK  
has used CV-JOINT MC X5  
grease in its repair kits.





# TRIPOD CV JOINT GREASE

## GREASE FOR NEEDLE ROLLER BEARINGS

Tripod CV Joint Grease is development of 2015. This grease was created for maintenance of Tripod CV Joints of the most cars worldwide.

CONFORMS TO DIN 51502/ DIN 51825: KPX 1 P-40

### ADVANTAGES:

- Has soft consistency (NLGI 1) for high level of filling small clearances between needles of bearings as well as whole unit.
- Does not contain solid additives (graphite, molybdenum disulphide, boron nitride, etc.) that can block unit work.
- Wide operating temperature range: from -40°C to +160°C.
- Water resistant.
- Designed for the whole service life of tripod CVJ.



DOES NOT  
CONTAIN SOLID  
ADDITIVES

ORDER GREASE FOR  
REPAIR KITS UNDER  
YOUR BRAND

**IMPORTANT!**  
Application of ball type CV Joints  
grease in Tripod CV Joints may  
dramatically reduce needle bearings  
service life.





## MC 1520 RUBIN

### MULTIPURPOSE AND WATER RESISTANT GREASE



The grease is suitable for centralized lubricating systems with pumping ability from -15°C to +120°C. The grease operating temperature is in the range -40°C ... +120°C.

[DIN 51 502/ DIN 51825 KP2K-40](#)

#### ADVANTAGES:

- High wear resistant properties.
- Water resistant properties, low water washout.

#### APPLICATION:

The grease is used for lubricating of loaded ball and roller bearings, cardan joints, chassis, and other parts of mechanisms and machines working in wet or dust conditions.

The grease withstands high loads in extreme conditions

The grease is resistant to water washout



# MC 1610 MAGMA

## HIGH TEMPERATURE GREASE



The grease is used in rolling and slider bearings continuously working at temperatures from -10°C to +200°C under high loads and moderate speeds.

DIN 51502/ DIN 51825 : KPF2S-0

### ADVANTAGES:

- The grease doesn't have drop point



LONGTERM  
WORK AT  
**+200°C**

### APPLICATION:

The grease is used in gears; rope and chain drive transmissions of rotary kilns, equipment for bitumen mixing; drying equipment for textile and food production; in shafts' bearings of conveyers and bearings of kilning carts.

Report about use of MC 1610 grease in equipment of "Furmanov bread plant" in Russia. "... it became obvious that the use of this grease provides more positive effect in comparison with other greases... After use of this grease noise and squeak during the work disappeared."



In bearings of autoclave carts at concrete factories







## SILICOT

### MULTIPURPOSE SILICONE GREASE



Silicone grease with PTFE and high penetrating ability.

#### ADVANTAGES:

- Transparent, without smell, non-toxic.
- Temperature range from  $-50^{\circ}\text{C}$  to  $+230^{\circ}\text{C}$
- Protection from corrosion

#### APPLICATION:

SILICOT grease is used for the lubrication of locks, faucet handles, door hinges, and other household needs.

Faucet handles



Door hinges



# SILICOT REZIN

LUBRICANT FOR RUBBER SEALANTS



## ADVANTAGES:

- Contains 5 times more silicone than aerosol products.
- Keeps elasticity of the rubber parts, protects from deformation and drying up in warm season or freezing in cold time (temperature range from -50°C to +50°C).
- Handy nozzle with sponge provides economic and even application.

## APPLICATION:

SILICOT REZIN is used for lubrication of doors' and windows' rubber sealants, washing machines' and refrigerators' rubber sealants, sport equipment (for diving).



INSTEAD  
OF 5 AEROSOL  
CANS

Rubber sealants in cars



Rubber sealants of PVC  
windows and doors



## SILICONE GREASE MC



Heat-resistant and high adhesion silicone grease with PTFE

### ADVANTAGES:

- Protects from water, mud and salt water.
- Transparent, without smell, non-toxic, non-evaporable.
- High temperature stability (-50°C...+230°C).

### APPLICATION:

The grease is used for lubrication of metal surfaces, rubber, wood, plastics to improve antifriction and water resistant properties. The grease can be used in lightly loaded units.

Conveyor belts at chocolate factory



Equipment for production of shoes





# FORPLAST

## GREASE FOR PLASTIC PIPES ASSEMBLY



FORPLAST grease for plastic pipe assembly for industries, professional and private use.

### ADVANTAGES:

- Keeps elasticity of rubber sealants.
- Facilitate pipes assembly.
- Frost resistance down to -30°C

### APPLICATION:

The grease is used for all types of plastic pipes  
Before assembling apply small quantity of grease on the spigot of the pipe ends.



FROST  
RESISTANT

Sewer plastic pipes

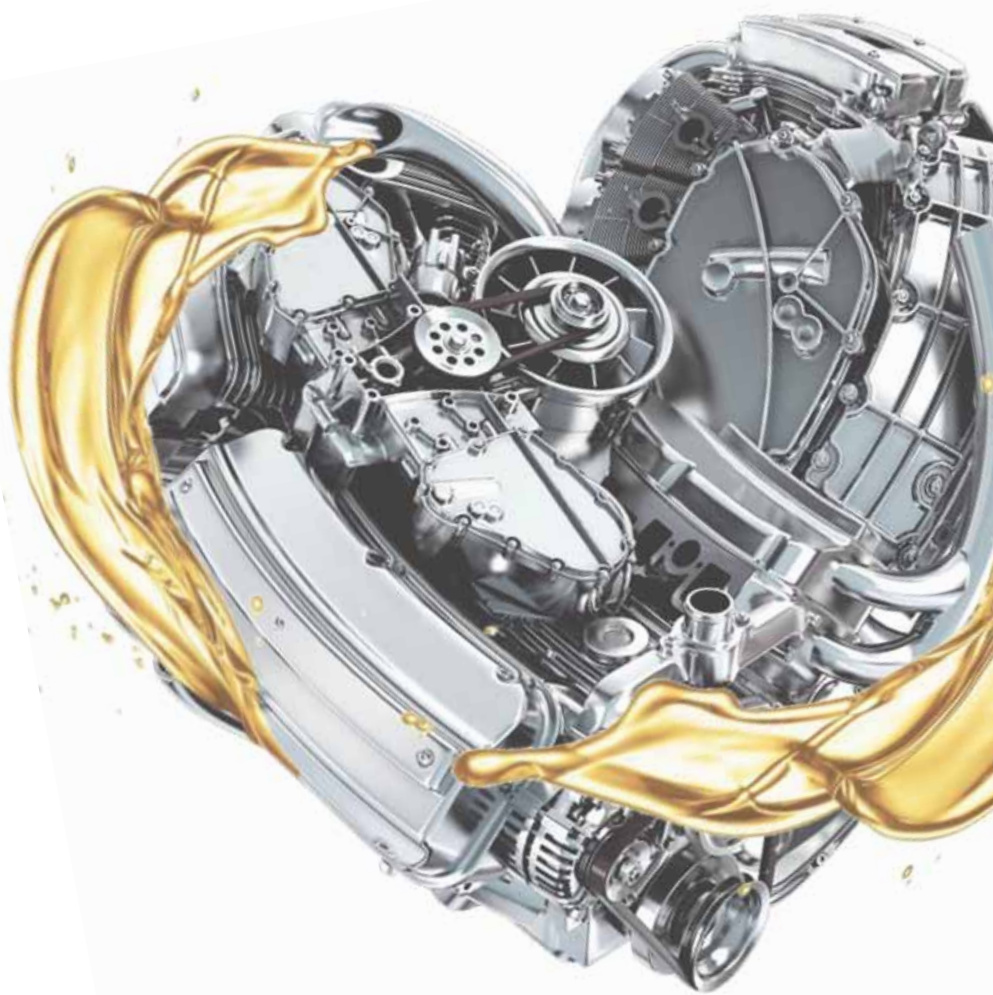


Plastic pipes for ventilation  
systems



# ***i MAGNET*** **P14**

THE FIRST HTHS  
VISCOSITY STABILIZER  
OF ENGINE OILS IN  
THE WORLD!



Comparable to chip tuning which  
aims to increase power and reduce  
fuel consumption.



# NEW CLASS OF ENGINE OIL ADDITIVES

## HTHS STABILIZER IMAGNET P14- MAXIMUM PROTECTION OF MODERN ENGINES

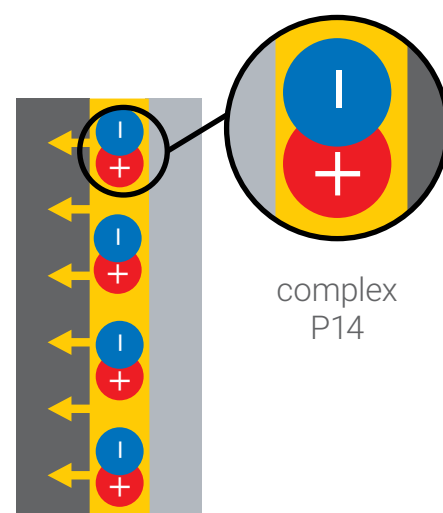


iMagnet P14 has international novelty. This is the new age of engine oil additives to oils. Application of only 5% of iMagnet P14 restores operational characteristics of modern oils and protects engine during all service interval.

iMagnet P14 is specially effective with energy saving oils- modern trend in automotive industry. These oils increase ecological parameters of engine, and save fuel because of low viscosity, as a consequence of less friction losses. The ecological properties of oil are determined by HTHS viscosity- 21st century parameter.

{ HTHS viscosity –viscosity under high temperature and high shear rate }

The less the value of HTHS viscosity is - the less the friction, so energy saving is higher. Unfortunately these types of oils have some disadvantages: they don't have margin of safety. Considering that conditions of engine operation are really extreme- everyday traffic jams, frequent drive on short distances, low quality petrol- energy saving oils lose its properties after 3000 km run. First of all low HTHS viscosity drops to critical value. Then oil film tears in friction zones subjecting them to dry friction and critical wear. iMagnet P14 prevents this process by stabilizing of HTHS parameter. Practically it means engine protection during all service intervals.



## UNIQUENESS

- iMagnet P14 does not contain solid particles, it prolongs engine oil service life in conditions of low quality fuels and when oil producers saves on oil additives.
- iMagnet P14 components optimize oil film and work as clever oil magnets.



Metal particles inside engine oil- the result of loss in HTHS viscosity.

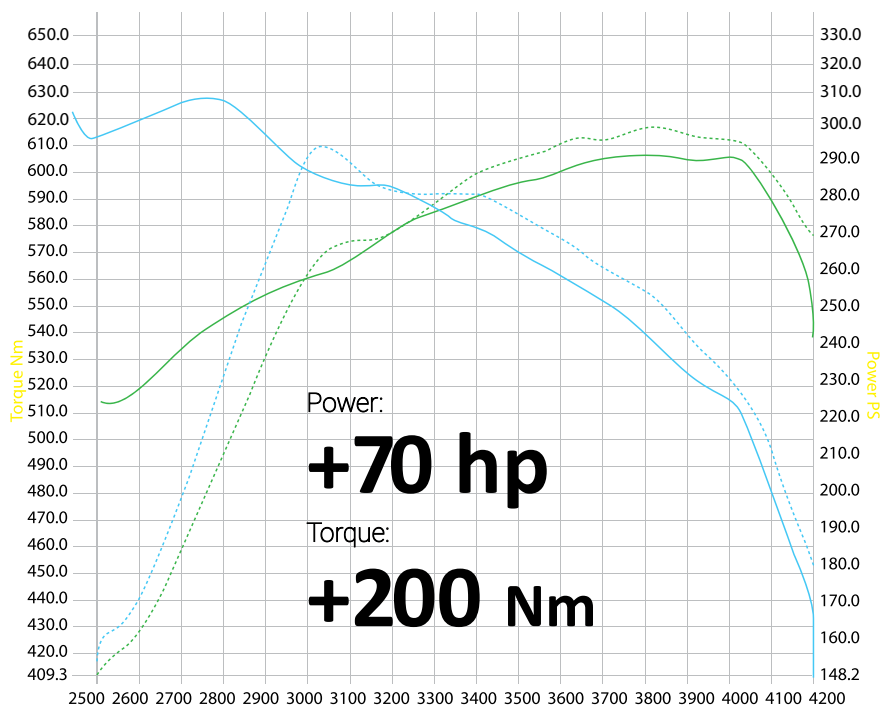


After application of iMagnet P14 5.4l per 100 km  
Shear of thin oil films in micron-scale clearances of modern engines happens with solar escape speed. That is why it is very important for HTHS to be in standard range. The decrease of HTHS viscosity below lower limit of standard range can cause metal particles inside oil- result of wear. The increase of HTHS parameter sharply increase the cost of overcoming the friction.

For examples, HTHS viscosity of Castrol EDGE Titanium A5 5W30 oil on Range Rover Sport 3L turbo diesel dropped under lower limit only after 3000 km. The oil lost its protective properties. It probably caused metal particles in the oil.

Works as chip tuning-  
increases power and  
reduces fuel consumption.

+70 hp  
+200 Nm



The test which were performed on DYNO stand showed that standard power and torque in medium and low rpm range were returned to the car. The additional effect of iMagnet P14 application is decrease in fuel consumption.

Before **7,2l** per 100 km  
AFTER iMAGNET P14 **5,4l** per 100 km

# INDICATIONS FOR USE

Do you use energy saving engine oils 5W-30; 0W-20?

Do you have Diesel car?

iMagnet P14 — is a real alternative for oil change every 3-5 thousand km.

A

## HTHS-VISCOSITY MAINTENANCE

- Prophylaxis of HTHS viscosity decrease.
- Traffic jams and short distance driving.
- Uncertain quality of oil and fuel.

B

## RESTORATION OF HTHS-VISCOSITY

- Loss in power on low and middle rpms.
- Oil burning after small mileage.
- Increase in engine noise.

Please kindly follow QR code and check results of oil properties in Range Rover Sport (2013, turbodiesel, 3l)

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



# RESURS®

## MORE THAN 10 YEARS ON WORLDWIDE MARKET

since 2001 year

11 683 093

car-owners has chosen

in 26 countries



International competition Lepine (Paris, 2006). RESURS was awarded with a bronze medal in category «Energy saving».



# RESURS ENGINE TREATMENT –

## MOST PROBABLY THE BEST ENGINE PROTECTION IN THE WORLD!

RESURS is a new generation of lubricant that is produced on the basis of our own patented technology.

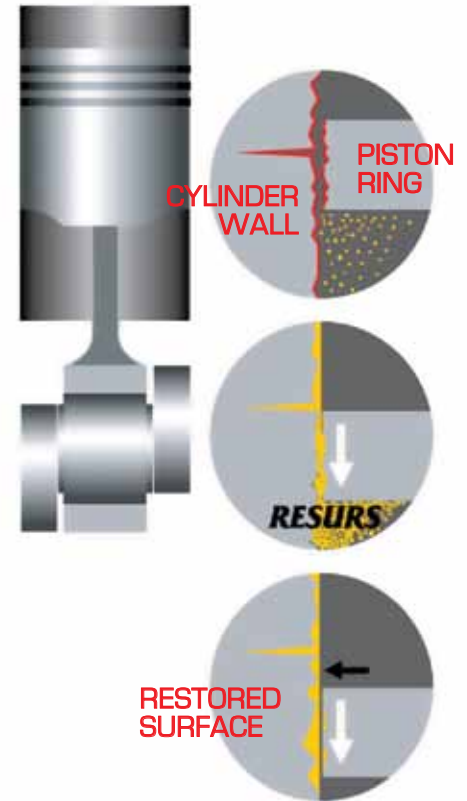
RESURS is intended for protection, restoration, power increase and noise decrease of engines and transmissions.

RESURS is a lubricating composition for the restoration and vast reduction of wear in car engines; offering car engine protection and restoration without dismantling and overhaul.

RESURS consists of metal nanoparticles that restore engine surfaces. RESURS forms porous structure that is like a sponge, which holds the oil in the area of friction, preventing damaging wear.

### KEY ADVANTAGES:

- Restoration and wear protection
- Fuel economy up to about 7%
- Reduces engine noise considerably
- Compression improvement up to about 40%
- Oil burn decrease
- CO, CH concentration in exhaust gases decrease



«Silk Way Rally» 2011. The team «KAMAZ MASTER» needed to decrease transmission noise to gain a place in the competition. The solution was: RESURS T. The noise level decreased by 2Db. Qualification was gained and the «KAMAZ MASTER» team took both 2nd and 3rd places.



## RESURS – RESTORATION!

The engine diagnostic test in the boat Tiara 31 Open 2000 showed that the Volvo, 220 HPX2 engine needed repair to the cost of 3.000 EUR. The owner chose RESURS DIESEL 350g to solve the problem.... and it did successfully.



BEFORE



AFTER 30  
MINUTES

## RESURS – POWER!

Car race. A moment of intellect and speed concentration. Engine restorer RESURS increased the speed of HONDA from 240 up to 261 km/h

+ POWER  
– FUEL CONSUMPTION



## RESURS FOR ENGINES

*RESURS TOTAL, 50g*



For all types of engines

*RESURS, 100g*



For all types of engines

*RESURS fleet, 150g*



For all types of engines

*RESURS DIESEL, 150g*



For diesel engines

*RESURS DIESEL, 350g*



For diesel engines

*RESURS Engine Flush*



RESURS Engine flush, 350ml

## RESURS FOR TRANSMISSIONS

*RESURS TOTAL T, 50g*



*RESURS fleet T, 150g*



*RESURS TOTAL AT, 50g*



*RESURS fleet AT, 150g*



For mechanical transmissions

For automatic transmissions





Surface before grinding



Surface after grinding

## GRINDING PASTES «VALVES»

NEW QUALITY, NEW COLOUR

Since 2003 VMPAUTO LLC has produced more than 5,000,000 units of grinding pastes. So why do mechanics choose this 'valve' paste?

The unique paste compound provides 100% tightness of the valves and less engine vibration.

### ADVANTAGES:

- 100% hermeticity
- Low consumption – 0.2 g per valve
- Rough and finishing compound in one tube

Grinding pastes were successfully tested at car service stations in Russia and Ukraine.

Comfortable nozzle and point application means less waste of the paste. One tube is enough for the treatment of 200 valves.



## GRINDING PASTE «PROFESSIONAL»

«PROFESSIONAL» GRINDING PASTE is blue in color. It is created especially for valves in petrol engines. The product contains abrasive particles that perfectly grinds surfaces making them ultra tight.

### APPLICATION:

Recommended for repair shops and car service stations.

- ROUGHNESS OF GRINDED SURFACE  $Ra = 0.6 \text{ mkm}$
- AVERAGE TIME OF TREATMENT 2 MIN



## GRINDING PASTE «CLASSIC»

«CLASSIC» GRINDING PASTE has a yellow color. It is created especially for valves in petrol engines and other metal surfaces. Compared to 'PROFESSIONAL', the grinding process with this paste takes a longer time.

### APPLICATION:

Recommended for repair shops and car service stations.

- ROUGHNESS OF GRINDED SURFACE  $Ra = 0.7 \text{ mkm}$
- AVERAGE TIME OF TREATMENT 3 MIN



## GRINDING PASTE «DIAMOND»

Ideally suits for hard units

DIAMOND' GRINDING PASTE has a red-brown color. It is recommended for valves in petrol and diesel engines. It contains abrasive particles that are diamond hard allowing the user to treat surfaces in minimum time.

### APPLICATION:

Recommended for repair shops and car service stations.

- ROUGHNESS OF GRINDED SURFACE  $Ra = 0.5 \text{ mkm}$
- AVERAGE TREATMENT TIME OF 1 VALVE OF DIESEL ENGINE 2 MIN



## «ANF»

Antifriction metal plating finishing paste is used for parts sealing.

### APPLICATION:

Use after treatment with «Classic», «Diamond» or «Professional» pastes.



# AEROSOL LUBRICANTS

MC 1700  
Grease for booms of knuckle pickers and forklifts



NEW

MC 1710  
Grease for battery terminals



NEW

SILICOT SPRAY  
Dielectric lubricant



NEW

Is designed for lubrication of knuckle pickers and forklifts booms, wire ropes and chains. Can be applied for lubrication of snowmobile chains.

**Properties:**

- Operating temperature range from -10°C to +180 °C.
- Reduces friction between surfaces and prevents stick-slip of boom.
- Has good retention on surfaces and is resistant to atmospheric precipitation.

Is designed to be applied on battery and other electrical terminals.

**Properties:**

- Wide operating temperature range: from -10°C to +120°C.
- Creates protective layer and protects terminals from corrosion, dust, humidity and salt.
- Contains anti corrosion additives and slows down oxidation process

**Attention! Apply only on screwed terminals.**

Aerosol is designed for protection of vehicle's ignition system from humidity and other contaminations.

**Properties:**

- Wide operating temperature range: from -50°C to +200°C.
- Has high penetrating ability and increase reliability of electrical parts.
- Is neutral to plastic and rubber wire sheathes; possess hydrophobic properties and protects from chemical corrosion.

SILICOT SPRAY  
For rubber seals



NEW

SILICOT SPRAY  
For locks and hinges



NEW

SILICOT SPRAY  
Universal



NEW

Aerosol is designed for lubrication of rubber seals.

**Properties:**

- Operating temperature range: from -50°C to +200°C.
- Prevents freezing, drying up and discoloration of rubber, makes it shine and protects from aggressive influence of negative environmental factors.

Aerosol is designed for fast lubrication of locks and hinges.

**Properties:**

- Operating temperature range: from -50°C to +200°C.
- Lubricates well and protects from corrosion, does not influences to locks' and hinges' parts.

Multipurpose aerosol.

**Properties:**

- Operating temperature range: from -50°C to +200°C.
- Effectively lubricates friction surfaces everywhere it is necessary.
- Protects metal parts from corrosion and oxidation.



# LUBRICANTS FOR BICYCLES

MC-1900  
Bike chain lubricant and cleaner

AEROSOL



NEW

Is designed for application on bicycle chains and chains of other units operating under loads.

**Properties:**

- Cleans, lubricates, protects from corrosion, and prevents buildup of dust, sand and dirt.
- Prevents squealing and noise.
- Can be applied on dirty surface.

MC 1910  
Dry bicycle lubricant with fluoroplastic

AEROSOL



NEW

Is designed to be applied on bicycle chains, front and back sprockets, wire ropes.

**Properties:**

- Prolongs chain service life.
- Protects from corrosion and humidity.
- Has high adhesion properties.
- Decrease adhesion of dust and dirt.

## OIL FOR BICYCLE CHAINS



NEW

Is used for lubrication of chains, wire ropes and pedal shafts.

**Properties:**

- Repels water, dust and dirt.
- Prevents corrosion, reduces friction and provides smooth and effective operation of chain.

## GREASE FOR BICYCLE BEARINGS



NEW

Is used for lubrication of ball bearings of all units: front and rear hubs, steering cup bearings, bottom brackets, pedal bearings, wire ropes and all threaded assemblies.

**Properties:**

- Wide temperature operating range: from -40°C to +180 °C.
- Lubricates well, protects from corrosion, has good retention on surface and resistant to water.

# CLEAN WITH SMILE!



*The «RM» LLC was founded in 1996 year. We specialize in production of high quality hand cleansers, car care products and protective products like 'Protective gloves', creams, etc.*

*We do not hide unique properties under 'clever words'. You can feel all the properties of our products for yourself. Just clean your hands with any product from the 'CHISTIK' line and see how it eliminates mud, oil or grease!*

**Ludmila Kapralova**

PhD in Chemistry  
Chief of laboratory

CLEANING AND  
PROTECTIVE PRODUCTS  
OF «RM» COMPANY



# HANDS CLEANSERS

## CHISTIK «EXTREME»



For extreme dirt

- Cleans heavy dirt
- Contains scrub
- without any synthetic preservative agents

## CHISTIK «PROFI»



For frequent use

- Cleans and softens hands
- Contains soft scrub
- Non allergenic

## CHISTIK «EVERGREEN»



ECO paste

- Contains natural scrub
- Make your hands skin fresh
- Removes hard dirt and smells

## «PROTECTIVE CREAM» CHISTIK (WATER-RETAINING)



NEW

Protects skin from penetration of oils, greases, fats, dust

- Protects from penetration of oils, greases, fats, dust
- Facilitates cleaning
- Reduces consumption of soap up to 5 times

HOW TO USE:

Apply a thin layer. Dry your hands for 1-2 min. Wash your hands after work.

GOST R 52343-2005

## «PROTECTIVE CREAM» CHISTIK (WATER-REPELLENT)



NEW

Protects skin from water and water solutions

- Protects from penetration of hazardous substances
- Keeps hands sensitive

HOW TO USE:

Apply a thin layer.

Dry your hands for 1-2 min. Wash your hands after work.

GOST R 52343-2005

## «PROTECTIVE CREAM» CHISTIK (REVITALIZING)



NEW

Restores skin, softens and moisturises

- Effectively moisturises the skin
- Is easily absorbed
- Doesn't leave oil spots

HOW TO USE:

Apply on your clean hands after work.

GOST R 52343-2005



## CAR CARE PRODUCTS

### WAXis «TEFLON WAX»

Fast drying



- Provides fast surface drying of car body after washing.
- Fast drying.
- Longterm shine.
- Car body protection.

### WAXis «TYRE SHINE»



- Restores black color. Provides wet luster and surface shining.
- Silicone protects tires from cracking.
- Protects from splashes and dust.

### WAXis

«LEATHER RESTORER & CLEANER»



NEW

- Effectively cleans, restores and renew leather, protects from wear, drying and cracking
- Softs leather and protects original leather color
- Doesn't leave oil spots

### WAXis

«PLASTIC RESTORER & CLEANER»



NEW

- Restores and protects original color with matt effect
- Creates silk antistatic coating protecting from dust
- Doesn't leave oil spots

## CAR CARE PRODUCTS

### WAXis AEROSOL «TYRE SHINE»



NEW

- Restores black color. Provides wet luster and surface shining.
- Aerosol creates thin even layer.
- Protects from splashes and dust.

### WAXis «TYRE SHINE» Concentrate



NEW

- Gel concentrate for professional tires treatment
- Restores and provides deep black color, protects from cracking.
- Protection from dust.
- Low consumption.

### CHISTIK «CAR POLISH SHAMPOO»



Unique foamless technology

- 1st shampoo that contains 35% of car polish
- Cleans
- Protects
- Provides shine

### CHISTIK «ANTISTATIC AUTO SHAMPOO»



ANTISTATIC

- Protects from dust up to 7 days
- Anti-dust properties

# GREASE NAME /

CHARACTERISTICS	MC 1000	MC 1510 BLUE	CV JOINT MC X5	MC 1520 RUBIN	MC 1400 NORD	MC 1410	
NLGI	3	2/3	2/3	2	1/2	1/2	
Colour*	BLACK	BLUE	BLACK	RED	BLACK	BLACK	
Group of base oils ( API)	I				I + IV		
Base oil viscosity @ 40°C, cSt (typical values)	60 - 80				20 - 25	30 - 35	
Thickener type	LITHIUM SOAP	COMPLEX LITHIUM SOAP	LITHIUM SOAP	LITHIUM- CALCIUM SOAP	LITHIUM SOAP		
Working temperature range (temperature of the friction unit), °C	-40...+120	-40...+180	-40...+120	-40...+120	-60...+120	-50...+120	
Drop point, °C, not less than (ASTM D2265)	195	350	195	175	190	190	
Lubricating properties @ (20±5) °C (fourball wear machine) (ASTM D2266; ASTM D2596) :							
	– weld point, N, not less than;	2 764	2 933	3 920	2450	2609	2325
	– critical load, N, not less than;	872	922	980	1100	784	824
	– scar diameter 392 N during 1h, mm, not more than	0, 70	0, 60	0, 75	0,55	0, 60	0, 60
Oil separation %, not more than (ASTM D1742)	12	13	12	13	20	15	
Metal corrosion (GOST 9.080)							
Water washout test @ +79°C, not less than (ASTM D1264)	6,0	4,0	7,0	1,5			
Water spray off test @38 °C, %, not more than (ASTM D4049)	7,0		4,0	7,0	—		
low-temperature torque at -40°C, N*m, not more than (ASTM D4693)	7,0		4,0	7,0	2,0		

\* THE COLOR CAN BE CHANGED IF REQUIRED



SPECIFICATIONS									
MC 1610 MAGMA	MC 1600	SILICONE GREASE MC	TRIPOD CV JOINT GREASE	MC 5115-2	MC ECO EP2 (MC 41.81.3-2)	MC 4115			
2	1/2	1/3	1	2	2	2	1	0	00/000
BLACK	BEIGE	WHITE	YELLOW	BLUE	FROM YELLOW TO LIGHT BROWN				
I	V		I + V	I	I + V	I			
220 - 250	150 - 170		140 - 180	170 - 190	60 - 80	170 - 190			
MODIFIED MINERAL THICKENER		SYNTHETIC RUBBER	COMPLEX LITHIUM SOAP		LITHIM SOAP				
-10...+200	-50...+1000	-50...+230	-40...+160	-40...+180	-20...+120	-40...+120			
более 370	310	230	280		195	195	180	170	160
2930	—	—	2607	2930	2607	2930			
1166	—	—	1235	921	1166	921			
0,80	—	—	0,50	0,65	0,50	0,65			
5,0	8,0	—	20	12		12	15	25	—

WITHSTANDS

—				5,0		7,0	—
	5,0	1,5	10,0	6,0	4,0	10,0	—
20	—			9,0	—	9,0	—

# PRODUCTION UNDER YOUR TRADEMARK

Scientific & Production Company VMPAUTO offers you production under your private label.

We have been developing and supplying products under different labels for several years and we are ready to satisfy your needs.

Production facilities allow products producing and delivering in short terms and in your original packaging.

Packaging is up to your needs: sachets, tubes, cans, pails, etc. We are ready to discuss and accept all your ideas!

We work with Russian and International manufacturers: BelMag, LSA Group, PK TOR, "Kurs Avto", Mikado, Baltkam, Sinekon, VBP, Zollex, Dafmi, etc.

ALL PRODUCTS  
CAN BE PRODUCED  
UNDER YOUR TM



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