GMEI

HENG

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HENGMEI

BRAND MANUAL

品牌手册

PERSEVERE TO BE PERFECT

持之以恒 尽善尽美



SINOPEC ZHONGYUAN OILFIELD INDUSTRY CENTER

BRAND MANUAL

HENGMEI

持之以恒 尽善尽美

PERSEVERE TO
BE PERFECT

» DIRECTORY



READY TO KNOW US?

About us 01-02

The development course 03-04

Hengmei culture 05-06

Hengmei honor 07-08

Hengmei elegant demeanour 09-10

Industrial oil series 11-16

Commercial vehicle oil series 17-28

Grease 27-38

HENGMEI

ABOUT US 关于我们

Puyang Hengmei Technology Grease Co., Ltd. (referred to as Hengmei Technology) is a standardized restructuring enterprise in Zhongyuan Oilfield of Sinopec Group. Before the restructuring, it was a lubricating oil factory under the jurisdiction of Zhongyuan Oilfield. After the restructuring, it belongs to Sinopec Zhongyuan Petroleum Exploration Bureau Co., Ltd. (Zhongyuan Oilfield) Industry Service Center for coordination, service and management.

The company has passed ISO9001, ISO14001, ISO45001 certification successively, and won the "Lixin Enterprise" in 2018; in 2020, it was recognized as a "National High-tech Enterprise", and was awarded the "5A" level enterprise of national credit integrity and "National Green Environmental Protection Demonstration Unit" , "Civilized and Integrity Management Demonstration Enterprise".

Adhering to the tenet of "persistence and perfection", after more than 30 years of development, the company not only has advanced production technology and equipment and a perfect quality control system, but also has its own research and development center. Guided by the market, with scientific and technological innovation as the core, and quality as the foundation, it has developed more than 200 kinds of oil (grease) products, which not only meet the needs of various sectors in the Sinopec system, but also actively participate in social competition. At the same time, the company has developed in multiple directions, actively responding to the "Belt and Road" initiative, going abroad and operating overseas. Its holding company, Henan Youziheng Trading Co., Ltd., is deeply involved in the construction of the China-Pakistan Economic Corridor, and strives to build a respected and internationalized lubricant and grease specialized company.

Facing the future, Hengmei Technology will adhere to the principles of extensive consultation, co-construction and sharing, promote high-quality development with high standards, and jointly promote the innovation and development of Made in China.



TO DISCUSS
TO BUILD
SHARED

Extensive consultation, joint contribution and shared benefits



30 YEARS OF DEVELOPMENT

以高标准参与国际化竞争,共同推进中国制造创新发展!

WE WILL WORK TOGETHER TO PROMOTE INNOVATION AND DEVELOPMENT OF CHINESE MANUFACTURING

DEVELOPMENT HISTORY 发展历程

1989 Investment and construction by Zhongyuan Oilfield

Zhongyuan Oilfield Chemical Group lubricating oil factory



2003-2005 Won the Zhongyuan Oilfield product quality award continuously
Solidify the oil market



2009 "Hengmei" lubricating oil with "Zhongyuan Iron Army" into Sichuan Puguang, Xinjiang, Jidong, Inner Mongolia and other domestic oil exploration areas



2012 "Heng Mei" lubricating oil into Kuwait, Kazakhstan, Ethiopia and other countries



2018 "Hengmei" lubricating oil into the high altitude area of Xizang operation site



2021 Gwadar Port Hengmei Technology lubricant u nveiling ceremony



·1989 ·2003-2005 ·2009 ·2012 ·2018 ·2021

·1990 ·2006 ·2010 ·2017 ·2020

1990 Zhongyuan Oilfield drilling, oil production and other equipment began to use "Hengmei" lubricating oil, grease

2006 "Hengmei" series products have obtained material procurement code in SINOPEC, and have officially entered the whole system of Sinopec

2010 "Hengmei" lubricating oil with "Zhongyuan Iron Army" out of the country,Enter the Sudanese and Saudi markets



2017 "Hengmei" lubricating oil into the Russian Far East region



2020 Hengmei Technology is recognized as a "high-tech Enterprise"



HENGMEI VISION 恒美文化



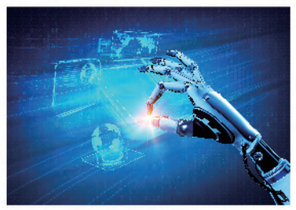
TECHNOLOGY INNOVATION
GREEN ENVIRONMENTAL PROTECTION

CLEAR WATERS AND GREEN MOUNTAINS ARE MOUNTAINS OF GOLD AND SILVER



Facing the future, Hengmei will continue to strengthen the concept of "clear water and green mountains are gold and silver mountains", put technological innovation and green environmental protection in a more prominent position, and continue to drive to the high-end market of lubricating oil. To respond to the "One Belt and One Road" initiative as an opportunity to go out, realize the two markets, two resources promote each other, continue to establish a good image, and strive to build customers satisfied, respected lubricants, grease professional company.

In the future, Hengmei - perseverance, perfection, total innovation brilliant!





HENGMEI HONOR 恒美荣誉

CONSULTATION, JOINT CONTRIBUTION AND SHARED BENEFITS

Hengmei Technology has always adhered to the service concept of extensive consultation, joint construction and sharing. Based on the perspective of customers, Hengmei Technology deeply grasps the needs of customers, tries its best to complete the work and provide good services, and has won various certifications and many honors.









HENGMEI LOOK 恒美风采

DEDICATED WORK ATTITUDE
STRICT TECHNICAL REQUIREMENTS
















PROFESSIONAL STANDARDIZED/DIFFERENTIATION

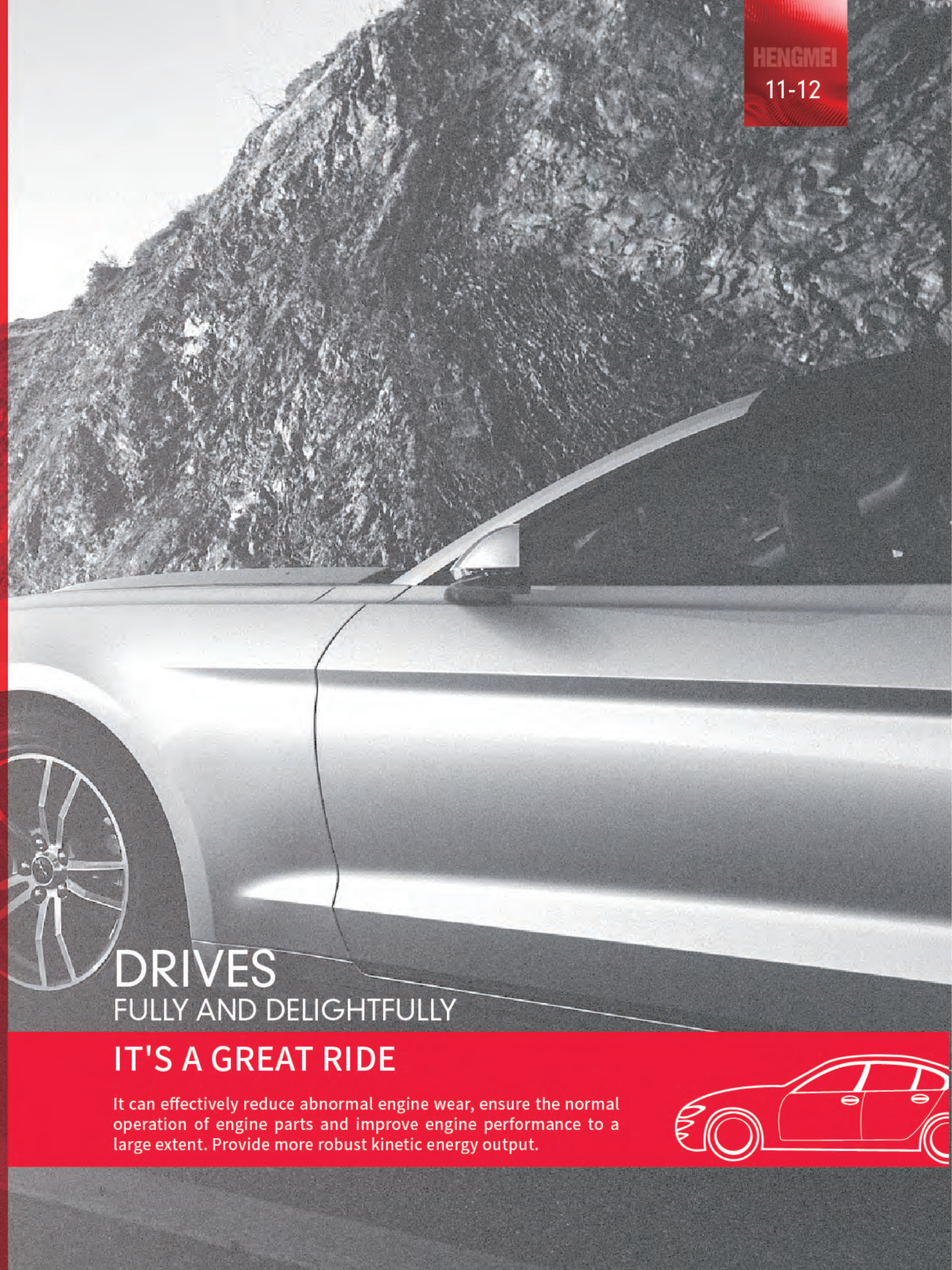
Hengmei Technology to "professional" plastic quality, to "standardization" to establish the standard, to "differentiation" tree brand service concept.

Adhering to the dedicated work attitude, strict technical requirements, Hengmei technology set up the industry model image, so that customers truly understand the concept of high quality service.

PASSENGER CAR OIL SERIES 乘用车用油系列

DIRECTORY

MAX9	API SP	OW-20	OW-30	OW-40	1L/4L
MAX8	API SN	5W-30	5W-40	——	1L/4L
MAX7	API SL	5W-30	10W-40	——	4L
MAX6	API SJ	5W-30	10W-40	——	4L



DRIVES
FULLY AND DELIGHTFULLY

IT'S A GREAT RIDE

It can effectively reduce abnormal engine wear, ensure the normal operation of engine parts and improve engine performance to a large extent. Provide more robust kinetic energy output.

MAX 9 全合成发动机油
FULLY SYNTHETIC ENGINE OIL

This product is composed of selected high performance base oil and imported additives.

Performance characteristics

- Has good oxidation stability, can reduce viscosity change;
- Advanced cleanness and dispersion to keep the engine clean and extend the oil change cycle;
- It can meet the requirements of the current advanced engine, protect the engine more effectively, reduce engine failure and extend engine life, reduce fuel consumption and save maintenance costs.

Typical data

API level	SP		
Viscosity class	0W-20	0W-30	0W-40
Kinematic viscosity (100°C), mm^2/s	8.2	10.8	14.1
Base number, mgkOH/g	7.2	7.2	7.2
Flash point (opening) ° C	210	225	233
Pour point °C	-42	-42	-42

Scope of application

- Suitable for passenger car or light truck gasoline engine;
- Recommended for high performance vehicles equipped with naturally aspirated, direct injection, turbocharged, TGDI engines.

Meet specifications

- Meet API SP specifications.
- Packing specification: 1L/4L



MAX 8 全合成发动机油
FULLY SYNTHETIC ENGINE OIL

This product is made of synthetic high quality base oil and high performance additives.

Performance characteristics

- With excellent fuel economy, excellent high temperature resistance and excellent low temperature fluidity, reduce the friction coefficient of the engine surface and protect the engine working effect;
- Remove carbon deposits from the engine and maintain oil cleanliness for a long time;
- Compatible with catalysts to protect catalytic converters and reduce exhaust emissions.

Typical data

API level	SN		
Viscosity class	5W-30	5W-40	10W-30
Kinematic viscosity (100°C), mm^2/s	10.85	14.15	11
Base number, mgkOH/g	7.15	7.15	7.15
Flash point (opening) ° C	220	222	230
Pour point °C	-38	-38	-38

Scope of application

- Suitable for passenger car or light truck gasoline engine;
- Recommended for high performance vehicles equipped with naturally aspirated, direct injection, turbocharged, TGDI engines.

Meet specifications

- Meet API SN specifications.
- Packing specification: 1L/4L



API SP API SN

HENGMEI

MAX 7 合成汽油发动机油
SYNTHETIC GASOLINE ENGINE OIL

This product is a high quality engine oil made from high-end base oil and additives.

Performance characteristics

- Excellent anti-wear performance, which can improve the viscosity and temperature performance of the product, reduce engine wear, increase the service life of lubricating oil, and protect the efficient operation of the engine;
- Excellent oxidation resistance, providing lasting and effective lubrication;
- Excellent carbon deposition and sludge inhibition ability to keep the engine clean for a long time;
- Meet engine requirements under four seasons and multiple climatic conditions.

Typical data

API level	SL	
Viscosity class	5W-30	10W-40
Kinematic viscosity (100°C), mm^2/s	11	14.2
Base number, mgkOH/g	7.2	7.2
Flash point (opening) ° C	210	233
Pour point °C	-38	-33

Scope of application

- Recommended for use in conventional car and light truck four-stroke gasoline engines (naturally aspirated), including those with valve mechanisms and those using emission control technology.

Meet specifications

- Meets API SL specifications.
- Packing specification: 4L



MAX 6 汽油发动机油
GASOLINE ENGINE OIL

This product is a high quality engine oil made from high-end base oil and additives.

Performance characteristics

- Excellent anti-wear performance, which can improve the viscosity and temperature performance of the product, reduce engine wear, increase the service life of lubricating oil, and protect the efficient operation of the engine;
- Excellent oxidation resistance, providing lasting and effective lubrication;
- With special additives, it has excellent anti-wear performance;
- Excellent carbon deposition and sludge inhibition ability to keep the engine clean for a long time;
- Meet engine requirements under four seasons and multiple climatic conditions.

Typical data

API level	SJ	
Viscosity class	5W-30	10W-40
Kinematic viscosity (100°C), mm^2/s	11	14.2
Base number, mgkOH/g	7.2	7.2
Flash point (opening) ° C	210	233
Pour point °C	-38	-33

Scope of application

- Recommended for use in conventional car and light truck four-stroke gasoline engines (naturally aspirated), including those with valve mechanisms and those using emission control technology.

Meet specifications

- Meet API SJ specifications.
- Packing specification: 4L



API SL API SJ

HENGMEI

EXTRAORDINARY
性能 超凡动力

Suitable for various operating conditions of transport vehicles, to provide excellent lubrication protection for vehicles. It can ensure excellent lubrication performance and economIC PERFORMANCE IN HARSH WORK-

COMMERCIAL VEHICLE
商用车用油系列 OIL SERIES

DIRECTORY

CK-4	10W-30 10W-40	4L/18L
CI-4	15W-40 20W-50	4L/18L
CH-4	15W-40 20W-50	4L/18L
CF-4	15W-40 20W-50	4L/18L
GL-5	85W-90 85W-140	4L/18L
L-HM	46# 68#	4L/18L
8#	——	2L/18L
CNG/LNG	15W-40 20W-50	4L/18L



CK-4

全合成柴油发动机油

FULLY SYNTHETIC DIESEL ENGINE OIL

This product is blended with a fully synthetic base oil and high-performance compound additives to provide multiple protection and ultra-long oil change mileage.

Performance characteristics

- CK-4 fully synthetic diesel engine oil has excellent acid corrosion resistance, sediment resistance and wear resistance, and can form a strong protective oil film on the metal surface, effectively protecting the engine while extending the oil change cycle. It can improve the activity of lubricating molecules, further enhance the performance of the product, and provide excellent pressure performance and power output while effectively protecting the engine operation, helping to extend the engine life.
- Its excellent fuel economy makes it suitable for the demanding applications of modern new diesel technology.
- Excellent low temperature starting performance and high temperature lubrication performance, so that the engine can get good anti-wear protection.

Typical data

API level	CK-4		
Viscosity class	10W-30	10W-40	15W-40
Kinematic viscosity (100°C), mm^2/s	11.1	14.8	15.2
Base number, mgkOH/g	9.11	9.11	9.11
Flash point (opening) ° C	235	239	245
Pour point °C	-33	-33	-30

Scope of application

- Suitable for road, mine, factory transport vehicles and mechanical equipment engine.
- Meet the national VI and below emission standards, suitable for a variety of post-treatment equipment engine.
- Suitable for diesel engines requiring the use of CK-4 and below grade lubricating oil.

Meet specifications

- The product meets API CK-4 specifications.
- Packing specification: 4L/18L

CI-4

全合成柴油发动机油

FULLY SYNTHETIC DIESEL ENGINE OIL

This product is made of refined base oil mixed with high quality additives.

Performance characteristics

- This product provides excellent protection against acid corrosion, deposits and wear, forming a strong protective oil film on metal surfaces to provide excellent lubrication protection for diesel engines operating in harsh environments. It can improve the activity of lubricating molecules and further enhance the performance of the product. It provides excellent pressure performance and power output while effectively protecting engine operation, providing long oil change cycle.
- A blend of technologically advanced base oils and additives that provide robust oxidation resistance, soot treatment and wear control, as well as superior piston sediment removal and reduced sludge formation to help extend engine life.

Typical data

API level	CI-4		
Viscosity class	10W-30	15W-40	20W-50
Kinematic viscosity (100°C), mm^2/s	11.1	15.3	20.2
Base number, mgkOH/g	13	13	13
Flash point (opening) ° C	222	238	245
Pour point °C	-33	-30	-28

Scope of application

- Suitable for road, mine, factory transport vehicles and wooden machinery equipment engine use.
- It can meet the high pressure, high horsepower and national IV emissions with EGR engine use.
- Suitable for diesel engines requiring the use of CI-4 and below grade lubricants.

Meet specifications

- API CI-4 specification requirements
- GB11122-2006(CI-4)



CH-4

合成柴油发动机油

SYNTHETIC DIESEL ENGINE OIL

This product is made of refined base oil mixed with high-performance additives.

Performance characteristics

- This product provides excellent protection against acid corrosion, deposits and wear, forming a strong protective oil film on metal surfaces to provide excellent lubrication protection for diesel engines operating in harsh environments. It can improve the activity of lubricating molecules and further enhance the performance of the product.
- While effectively protecting engine operation, it provides excellent pressure performance and power output, which helps to resist high temperature, resist wear, control soot generation, maintain working viscosity, and stabilize oil pressure pumping.

Typical data

API level	CH-4		
Viscosity class	10W-30	15W-40	20W-50
Kinematic viscosity (100°C), mm^2/s	11.1	15.3	20.2
Base number, mgkOH/g	8.25	8.25	8.25
Flash point (opening) ° C	222	238	245
Pour point °C	-33	-30	-28

Scope of application

- Suitable for large container transport vehicles, highway driving heavy load trucks.
- Suitable for all kinds of domestic and imported requirements to use CH-4 level excavators, loaders and other construction machinery engine systems.

Meet specifications

- API CH-4 specification requirements
- GB11122-2006(CH-4)

CF-4

柴油发动机油

DIESEL ENGINE OIL

This product is blended with high quality base oil and high performance additives.

Performance characteristics

- The anti-wear performance is sudden, which effectively reduces the wear between the moving parts and extends the working life of the parts to a greater extent.
- Good corrosion resistance, oxidation resistance, can extend the service life of the oil.
- Excellent purification and dispersion performance, prevent carbon accumulation, sludge generation.
- The excellent low temperature starting ability can ensure the low temperature starting performance of the engine.

Typical data

API level	CF-4		
Viscosity class	10W-30	15W-40	20W-50
Kinematic viscosity (100°C), mm^2/s	11.1	15.3	20.2
Base number, mgkOH/g	7.6	7.6	7.6
Flash point (opening) ° C	222	238	245
Pour point °C	-33	-30	-28

Scope of application

- Suitable for turbocharged or natural intake diesel engines that require the use of CF-4 (including CF, CD, CC) grade diesel oil.
- It is suitable for large container transport vehicles, heavy duty trucks driving on highways and bulldozers, excavators, mining equipment and generator sets operating under various harsh conditions.

Meet specifications

- API CF-4 specifications
- GB11122-2006(CF-4)



GL-5

重负荷齿轮油

HEAVY DUTY GEAR OIL

This product is made of refined high viscosity index base oil with extreme pressure compound additive.

Performance characteristics

- Excellent viscosity characteristics prevent oil oxidation and keep the differential clean.
- Excellent wear resistance and extreme pressure lubrication, providing good protection for gears under low/high torque operation.
- Excellent anti-oxidation and anti-rust function, effectively protect gear surface wear, wear, prolong the life of gear and bearing.

Typical data

API level	GL-5	
Viscosity class	85W-90	85W-140
Kinematic viscosity (100°C), mm^2/s	15.2	28.2
Base number, mgkOH/g	103	105
Flash point (opening) ° C	230	238
Pour point °C	-30	-30

Scope of application

- Heavy duty vehicle rear axle and main reducer.
  Road light and heavy goods vehicles, passenger cars and box trucks.
- Off-highway applications such as construction, mining, quarrying and agriculture.
- Other heavy duty industrial and automotive applications, such as hyperboloid gear systems operating at high impact loads, high speed low torque, and low speed high torque.

Meet specifications

- GB13895-92 (GL-5)

L-HM

高压抗磨液压油

HIGH PRESSURE ANTI-WEAR HYDRAULIC OIL

This product is made of highly refined high viscosity index base oil, adding high-performance additives by strict process.

Performance characteristics

- The product has a high viscosity index and has good performance in high and low temperature environment.
- The excellent oxidation resistance enables the product to provide good lubrication performance under high temperature operation and extend the oil change cycle.
- Excellent wear protection extends the service life of the equipment and reduces downtime.
- Excellent anti-rust performance makes the hydraulic system free from corrosion.
- Excellent filterability, prevent the formation of loop sediment, keep the loop clean, effectively prevent filter clogging.
- Fast air release, air can be discharged in time to ensure the smooth operation of the hydraulic system.

Typical data

Viscosity class	32	46	68	100
Kinematic viscosity (40°C), mm^2/s	31.2	46.4	66.5	99.8
Viscosity index	102	103	102	101
Flash point (opening) ° C	212	222	232	240
Pour point °C	-30	-30	-30	-30
Resistance to emulsification (40-37-3ml)(54°C), min	5	5	5	8
Copper corrosion (100C, 3h)	1b	1b	1b	1b

Scope of application

- Suitable for hydraulic devices started at high pressure or high temperature (geotechnical machinery, excavators, loaders, etc.), plastic molding machines, hydraulic devices with environmental pollution and water pollution, and applications requiring high-performance lubrication with excellent wear resistance.

Meet specifications

- Meet GB11118.1-2011



8#

液力传动油

HYDRAULIC TRANSMISSION OIL

This product is made of deeply refined base oil, adding high-performance additives by strict process.

Performance characteristics

- Excellent viscosive-temperature performance and low-temperature performance ensure that the loss of kinetic energy transmitted can be effectively reduced under normal working conditions.
- Excellent anti-friction characteristics and anti-wear performance, reduce equipment wear, extend equipment life.
- Good sealing material compatibility, effectively extend the service life of sealing materials.
- Excellent bubble resistance and air release, to ensure that the hydraulic system work sensitive, accurate, stable.

Typical data

Viscosity class	6#	8#
Kinematic viscosity (100°C), mm^2/s	5.8	7.3
Viscosity index	118	121
Flash point (opening) ° C	212	221
Pour point °C	-33	-33
Copper corrosion (100C, 3h)	1b	1b

Scope of application

- Torque converters and couplers for heavy vehicles, heavy trucks, construction machinery and other equipment.

Meet specifications

- Packing specification: 2L/18L

CNG/LNG

双燃料发动机油

DUAL FUEL ENGINE OIL

This product is made of high quality base oil, adding additives such as extreme pressure, anti-corrosion, anti-wear and anti-oxidation.

Performance characteristics

- Excellent wear resistance and shear stability, effectively protect the transmission in extreme weather conditions for a long time smooth operation.
- Excellent high temperature oxidation resistance and nitrification resistance, durable high temperature lubricity and clean dispersion, effectively control the production of sediment, keep the top and skirt of the piston clean, extend the oil change period.
- Low ash cleaning additive formula is used to prevent early ignition of the engine and wear of the control valve system.

Typical data

Viscosity class	15W-40	20W-50
Kinematic viscosity (100°C), mm^2/s	15.2	20.3
Viscosity index	138	140
Flash point (opening) ° C	235	245
Pour point °C	-30	-30

Scope of application

- Suitable for a variety of compressed natural gas (CNG) liquefied natural gas (LNG) or dual fuel engines.

Meet specifications

- Packing specification: 4l/18L



多效多方位保护

MULTI EFFECT MULTI-DIRECTIONAL PROTECTION

GREASE
润滑脂

DIRECTORY

General purpose lithium base grease
Extreme pressure lithium base grease
molybdenum disulfide grease
Construction machinery grease
HP high temperature grease
Semi fluid grease
High temperature grease for automobile wheels
Low noise bearing grease
Lithium crystal grease
Golden grease

通用锂基润滑脂
UNIVERSAL LITHIUM GREASE

This product is made of refined mineral oil thickened with hydroxy-fatty acid lithium soap and added with antioxidant, anti-rust and other additives.

Performance characteristics

- This product is made of hydroxy-fatty acid lithium soap thickened mineral oil by high temperature saponification. It is a multi-purpose, long-life and energy-saving grease.
- This product is added with antioxidant, anti-rust and other additives, with good mechanical stability, colloidal stability, oxidation stability.
- Excellent rust and water resistance.

Typical data

NLGI taper level	NLGI 1	NLGI 2	NLGI 3
Working cone penetration, (0.1mm)	310-340	265-295	220-250
Drop point, ℃	175	180	190
Extended working time (100000 times),0.1mm	360	300	268
Water loss (38℃,1h),%	6	5	5
Corrosion resistance (52℃,48h), grade	Up to standard	Up to standard	Up to standard
Copper sheet corrosion (T_2 copper sheet, 100℃,24h)	No change	No change	No change

Scope of application

- Suitable for lubrication of rolling bearings, plain bearings and other friction parts of mechanical equipment that do not require extreme pressure properties.
- Operating temperature: -20℃~120℃

Meet specifications

- Meet the national standard GB/T7324-2010



极压锂基润滑脂
EXTREME PRESSURE LITHIUM GREASE

This product adopts advanced fatty acid lithium soap thickened deep refined base oil, and adds antioxidant, extreme pressure anti-wear, anti-rust and other additives, by special process manufacturing.

Performance characteristics

- This product is made from hydroxy-fatty acid lithium soap thickened mineral oil by high temperature saponification.
- This product is added with extreme pressure anti-wear, anti-oxygen and anti-rust additives, has excellent shear resistance, good colloidal stability and mechanical stability, can effectively prevent mechanical wear and rust, extend the service life of the equipment, and reduce the amount of bearing leakage.
- High drop point, high temperature fluidity.

Typical data

NLGI taper level	NLGI 00	NLGI 0	NLGI 1	NLGI 2	NLGI 3
Working cone penetration, (0.1mm)	400-430	355-385	310-340	265-295	220-250
Drop point, ℃	165	170	180	180	185
Extended working time (100000 times),0.1mm	445	410	360	305	275
Steel mesh oil (100℃,24h),%	Report	Report	8	3	3
Extreme pressure performance (four-ball machine method)PB value, N	588	588	696	696	696
Copper sheet corrosion (T_2 copper sheet, 100℃,24h)	No change	No change	No change	No change	No change

Scope of application

- Suitable for lubrication of rolling bearings, plain bearings and other friction parts of mechanical equipment with extreme pressure performance requirements.
- Operating temperature: -20℃~120℃

Meet specifications

- Meet the national standard GB/ T7333-2019



二硫化钼润滑脂
MOLYBDENUM DISULFIDE GREASE

This product adopts advanced fatty acid lithium soap thickened deep refined base oil, and adds antioxidant, anti-rust, molybdenum disulfide and other additives to prepare.

Performance characteristics

- This product is a grease with additives such as molybdenum disulfide, which has typical characteristics such as high temperature resistance and extreme pressure anti-wear.

Typical data

NLGI taper level	NLGI 1	NLGI 2	NLGI 3
Working cone penetration, (0.1mm)	310-340	265-295	220-250
Drop point, °C	180	185	190
Steel mesh oil (100°C,24h),%	5.6	3.4	1.2
Extended working cone penetration (100000 times),0.1mm	350	291	264
Water loss (38°C,Ih),%	3.5	1.25	1.25
Extreme pressure performance (four-sphere method)PB value, N	618	618	618

Scope of application

- This product is suitable for the lubrication of the friction parts of the bearing of metallurgical rolling machine, refractory equipment, casting shakeout machinery, chemical roasting, mechanical processing and heat treatment, printing and dyeing roasting machine, paper dryer, rubber, plastic hot rolling and cement industry equipment.
- Operating temperature: -20°C~120°C

Meet specifications

- In line with enterprise standard Q/HMKJ002-2018



工程机械润滑脂
CONSTRUCTION MACHINERY GREASE

This product is made of refined mineral base oil thickened with complex calcium soap and added with extreme pressure additive by special process.

Performance characteristics

- The base oil has a large viscosity and strong adhesion
- It has good lubricity
- It has excellent high temperature resistance

Typical data

NLGI taper level	NLGI 1	NLGI 2	NLGI 3
Working cone penetration, 0.1mm	310-340	265-295	220-250
Drop point, °C	135	140	145
Corrosion (copper sheet, 100°C,3h)	No change	No change	No change
Moisture, %	one	1.5	2

Scope of application

- Suitable for lubrication of low speed and heavy load friction parts
- Operating temperature: 0°C~120°C

Meet specifications

- Meet the enterprise standard GB/T491-2008



HP高温润滑脂
HP HIGH TEMPERATURE GREASE

This product is made of compound metal soap thickened refined mineral oil, plus high efficiency extreme pressure anti-wear agent, anti-rust antioxidant, etc., is a high temperature and long life grease.

Performance characteristics

- This product has outstanding high temperature resistance, high temperature adhesion, can ensure good lubricating oil film.
- The strong extreme pressure anti-wear performance can meet the lubrication of heavy duty vehicle hub bearings.
- With good colloidal stability, it can enhance the service life of the grease and extend the grease change cycle.

Typical data

Item	NLGI 1	NLGI 2	NLGI 3
Working cone penetration, 0.1mm	310-340	265-295	220-250
Drop point, ℃	270	275	285
Steel mesh oil (100°C,24h),%	1.8	1.2	0.8
Extended cone penetration (100000 times) Difference from working cone penetration, 0.1mm	352	310	270
Extreme pressure performance (four-sphere method)PB value, N	618	696	696

Scope of application

- This product is suitable for high temperature, heavy load and other harsh conditions of high-speed bus and heavy truck hub bearing, chassis and metallurgical equipment, construction equipment friction parts lubrication.
- Operating temperature: -20°C-220°C

Meet specifications

- In line with enterprise standard Q/HMKJ003-2018



半流体锂基润滑脂
SEMI FLUID GREASE

This product is made of fatty acid thickened refined mineral oil by high temperature saponification modulation, belonging to semi-fluid grease.

Performance characteristics

- It has good extreme pressure wear resistance, mechanical stability, rust resistance and water resistance.

Typical data

NLGI taper level	NLGI 0	NLGI 00
Working cone penetration, 0.1mm	355-385	400-430
Drop point, ℃	100	90
Corrosion (copper sheet, 100°C,3h)	No change	No change

Scope of application

- This product is suitable for gear, reducer, concrete pump and other machinery grease.
- Operating temperature: -20°C-80°C

Meet specifications

- Q/XYT01



汽车轮毂高温脂
HIGH TEMPERATURE GREASE FOR AUTOMOBILE WHEELS

This product is made of advanced acid soap thickened refined base oil, plus high efficiency extreme pressure anti-wear agent, anti-rust antioxidant, etc.

Performance characteristics

- This product is a grease with high temperature resistance, extreme pressure, long life function.
- It has excellent water resistance, rust prevention and wear resistance.
- Strong colloidal stability, in the mechanical shear process can form a strong toughness of the oil film, to ensure that the grease to maintain its excellent characteristics for a long time, protect the bearing effectively extend the service life of the bearing.

Typical data

Item	Typical data
Working cone penetration, 0.1mm	240-270
Drop point, °C	292
Steel mesh oil (100°C,24h),%	0.8
Extended cone penetration (100000 times) Difference from working cone penetration, 0.1mm	265
Extreme pressure performance (four-sphere method)PB value, N	696

Scope of application

- This product is suitable for high temperature, heavy load and other harsh conditions of high-speed bus and heavy truck hub bearing, chassis and metallurgical equipment, construction equipment friction parts lubrication.
- Operating temperature: -20°C~160°C

Meet specifications

- Meets specification Q/HMKJ003-2018



低噪音轴承润滑脂
LOW NOISE BEARING GREASE

This product uses advanced lithium soap thickened deep refined base oil, and adds antioxidant, anti-rust and other additives, by special process manufacturing.

Performance characteristics

- The soap fiber of the thickener has reasonable structure and uniform distribution, and can maintain good structural characteristics of grease under the action of shear force.
- With special production process, the grease has high cleanliness and can effectively reduce the vibration value of the bearing.
- Good anti-rust performance, can prevent the bearing in the process of running rust.
- It has excellent noise reduction performance.

Typical data

NLGI taper level	NLGI 2
Working cone penetration, 0.1mm	265-295
Drop point, °C	196
Oxidation stability (99°C,100h,758kPa) Pressure drop, kPa	30
Impurity, PI /cm^3 10μm above 75μm above 25μm above 125μm above	 200 0 0 0
Noise value (6201 bearing) Number of startup accents, N Number of running anomalies, N	 2 2
Low temperature torque (-20°C),N · m activate turn	 0.22 0.05
Corrosion resistance (52°C,48h), grade	1

Scope of application

- Suitable for small and medium-sized motor rolling bearings and other low load equipment rolling bearings lubrication
- Operating temperature: -20° C ~120 ° C

Meet specifications

- Q/SH303312-2004

黄金脂
GOLDEN GREASE

The product is a multipurpose grease. It is formulated with special selected refined mineral base oils and rust and oxidation inhibitors, and is thickened with a mixed compact and stable metal soap thickener. It can provides excellent anti-wear protection, superior lubricity, as well as outstanding mechanical stability, water resistance, adhesion, sealing and rust resistance.

Performance characteristics

- Good adhesiveness.
- Outstanding oxidation stability to ensure longer service life during application process.
- Outstanding mechanical stability under harsh shearing forces.
- Excellent resistance to water washout, improved lubricity even under conditions such as high ambient humidity and inevitable contamination with water.
- Excellent lubricity to reduce abrasion between friction pairs.

Typical data

Item	NLGI 1	NLGI 2	NLGI 3	Test method
Appearance	Smooth paste	Smooth paste	Smooth paste	Visual
Worked cone penetration, 0.1mm	310-340	265-295	220-250	GB/T 269
Dropping point, °C	135	140	145	GB/T 4929
Penetration change after 100,000 strokes, %,	20	20	20	GB/T 269
Water washout amounts(38°C,lh), %	3.1	2.5	1.9	SH/T 0109
Anti-corrosion property(52°C,48h)	Pass	Pass	Pass	GB/T 5018
Steel mesh oil separation (100°C, 24H) ,%	5	3.3	2.1	SH/T 0324

Scope of application

- Suitable for the lubrication of low speed equipment such as construction machinery, agricultural machinery.
- Suitable for lubricating ceramics (such as polishing machines, transmission bearings), metallurgy (such as conveying roller table), automobile (chassis, wheel hub) and conventional general machinery, etc.
- Application temperature range: -20 °C~120 °C

水晶脂
LITHIUM CRYSTAL GREASE

The product is a semitransparent multipurpose long service life grease. It is formulated with highly quality refined mineral base oils and rust and oxidation inhibitors, and is thickened with a mixed metal 12-hydroxystearate soap thickener. It can substitute calcium and sodium base grease and be transfused by hand tools.

Performance characteristics

- Good adhesiveness.
- Multi-purpose with excellent mechanical and oxidation stability.
- Good water resistant and anti-rust properties.

Typical data

Item	NLGI 1	NLGI 2	NLGI 3	Test method
Appearance	Smooth paste	Smooth paste	Smooth paste	Visual
Worked cone penetration, 0.1mm	310-340	265-295	220-250	GB/T 269
Dropping point, °C	185	195	200	GB/T 4929
Penetration change after 100,000 strokes, %,	20	20	20	GB/T 269
Water washout amounts(38°C,lh), %	2.9	2.3	1.7	SH/T 0109
Anti-corrosion property(52°C,48h)	Pass	Pass	Pass	GB/T 5018
Steel mesh oil separation (100°C, 24H) ,%	4	2.5	1.3	SH/T 0324

Scope of application

- Suitable for using in high temperature area.
- Suitable for lubricating rolling bearing, sliding bearing and other friction points of general mechanical equipments.
- Application temperature range: -20 °C~120 °C