FLYSAK®

API American Petroleum Institute | ACEA EUropean Automobile Manufacturers Association | ISO 9001 | ISO 14001 | ISO 45001 | SGS | CNAS

YOUR BEST LUBRICATING OIL PARTNER

Flysak Lubrication Technology (Guangdong) Co., Ltd

A3 first floor, B3 workshop, No 2,Shun Fu East Road, Jingben Industrial Park, Zone B, Hegui Industrial Park, Lishui Town, Nanhai District, Foshan, Guangdong

www.flysakcn.com

GERMANY TECHNOLOGY

202512112

FLYSAK®

FLYSAK LUBRICATION TECHNOLOGY (GUANGDONG) CO., LTD AUTOMOTIVE LUBRICATING OIL BROCHURE

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COMPANY PROFILE

GERMANY TECHNOLOGY

Flysak Lubrication Technology (Guangdong) Co., Ltd. is a large modern lubricating oil factory in Foshan, China. Plant construction area of nearly 20,000㎡, base oil storage capacity of nearly 10,000 tons, lubricating oil design annual capacity of more than 60,000 tons. Our factory has achieved full production automation, equipped with automatic batching and blending system, high speed filling production line, etc.

MODERNIZATION FACTORY

Flysak factory has built an advanced central control system, which achieves remote automatic production control management, dynamic display of production process, high precision control, fast batching speed and trace of adding raw material.

SPECIAL DESIGN OIL MANIFOLD TRANSFER SYSTEM ONE TUBE FOR ONE OIL

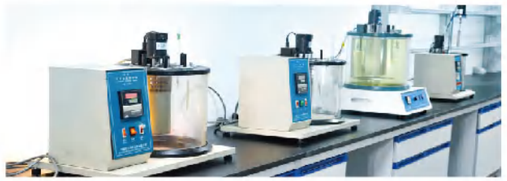
The oil management manifold transmission system avoids the filling of different oil products between the cross confusion, avoids channeling oil mixing problem, to ensure the stability of product quality.

20000m²	10000tons	60000tons
floor space	storage capacity	annual capacity

ADVANCED R&D INSPECTION LABORATORY

CREATE HIGH QUALITY HIGH PERFORMANCE OIL PRODUCTS

Equipped with high-end inspection and analysis testing instruments, such as viscosity tester, high temperature and high shear tester, flash point tester, etc., advanced facilities can greatly help the innovation and development of Flysak lubricating oil products and synchronize with the world's high-quality oil products, but also provide a strong guarantee for oil testing, and after-sales service.



Base Oil

More than 90% our base oil are imported from the world's top suppliers: Mobil (synthetic materials), Formosa Plastics, South Korea Ssangyong.

Additive

Our additives are from the world famous additive companies: Lubrizol, Chevron, Afton, RunYinglian and so on.

Mobil · S-OIL · Afton · Infineum · Lubrizol · Chevron

Complete Product Line

After more than years of development,flysak lubricants have has developed 8 categories that perfectly fit the world markets, covering a full range of products such as gasoline engine oil, diesel engine oil, motorcycle engine oil, transmission oil, industrial oil, engineering machinery oil, antifreeze and automotive auxiliary oil.

Gasoline Engine Oil

Diesel Engine Oil

Transmission Fluid

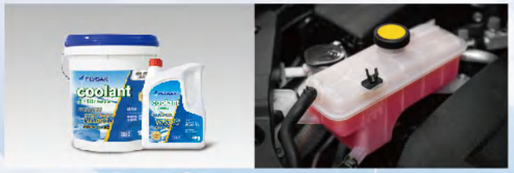
Engineering Machinery Oil

Motorcycle Lubricating Oil

Industrial Lubricating Oil

Auxiliary Lubricating Oil Series

Organic Synthetic Antifreeze



Catalogue

GASOLINE ENGINE OIL ---------- 07-10

AUTOMATIC TRANSMISSION FLUID ---------- 11-12

DIESEL ENGINE OIL ---------- 13-14

BRAKE FLUID ---------- 15-16

MOTORCYCLE ENGINE OIL ---------- 17-18

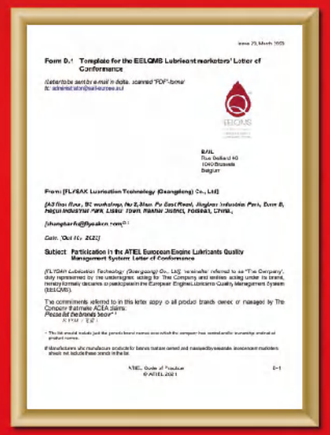
ANTIFREEZE COOLANT ---------- 19-20

GEAR OIL ---------- 21-22

ANTIWEAR HYDRAULIC OIL ---------- 23-24

GERMANY TECHNOLOGY

Our Honor



Company Development History

2007

Guangzhou Lanlian Petrochemical Technology Co., Ltd. was established, focusing on OEM.

2012

Guangzhou Jicheng Plastic Bottle Industry Co., Ltd., a supporting plastic packaging bottle factory, was established.

2015

Cooperation and mutual visits with German FLYSAK Energy, FLYSAK Lubricants (Guangzhou) Co., Ltd. was established, and brand authorization and technical services were obtained.

2022

Foshan newly built a large lubricant factory-FLYSAK Lubricant Technology (Guangdong) Co., Ltd.

PROFESSIONAL TECHNOLOGY SERVICE TEAM PROVIDES STRONG SUPPORT TO EVERY CUSTOMER.

Flysak team takes focusing customer as our purpose of service, to provide operation, team assistance, oil solutions of the whole service model, achieve mutually and develop together. At the same time, we are also committed to developing the terminal business of Flysak, establishing flagship stores in some provinces and cities to directly provide convenient and fast services for car owners. Through years of hard work in China and all over the world, Flysak has built an extensive sales network and user group.

FLYSAK Car Repair Maintenance Shop

ESTER FULL SYNTHETIC ENGINE OIL
ESTER FULL SYNTHETIC ENGINE OIL BLUE OIL

ESTER FORMULA | PAO FORMULA | Lubrizol USE LUBRIZOL ADDITIVES | HYBRID | FUEL ECONOMY | DPF GPF TWC

ECO | EXTENDED DRAIN | LSPI protection | TGDI Compatible | UNIVERSAL TYPE

PETROL / GASOLINE - DIESEL

API SERVICE SAE xxW-yy RESOURCE CONSERVING SN PLUS

AMERICAN PETROLEUM INSTITUTE FOR GASOLINE ENGINES CERTIFIED

ESTER FULL SYNTHETIC ENGINE OIL
ESTER FULL SYNTHETIC ENGINE OIL BLUE OIL

QN-F9

● Using global high-quality base oil and internationally renowned brand additives, it comprehensively improves engine performance and effectively improves fuel economy.● Effectively reduces noise and wear during engine start-stop and driving.● Excellent cleaning and dispersing performance keeps the engine clean for a long time and effectively extends the life of components.● Excellent high and low temperature performance, can easily cope with high summer temperatures and severe winter cold and other harsh environments.● Can meet the engine lubrication requirements for current and past automotives.

API SERVICE SAE xxW-yy RESOURCE CONSERVING SN PLUS

AMERICAN PETROLEUM INSTITUTE FOR GASOLINE ENGINES CERTIFIED

GERMANY TECHNOLOGY

Test Parameters	Method	Typical Values					
		SP ACEA C5 0W-20 Blue Oil	SP ACEA C5 0W-20	SP ACEA C3 0W-30	SP ACEA C3 5W-30	SP GF-6 0W-20	SP 0W-40
Viscosity @100°C, cSt	GB/T 265-2004	8.18	8.48	11.44	11.32	8.31	14.08
Viscosity @40°C, cSt	GB/T 265-2004	45.03	46.27	63.33	70.57	45.52	80.28
Viscosity Index	GB/T 2541-2004	157	162	177	154	160	182
Flash point °C	GB/T 3536-2008	234	232	230	226	234	226
Pour point °C	GB/T 3535-2006	-50	-50	-47	-40	-48	-45
CCS mPa.s	GB/T 6538-2010	5248	5256	4852	4765	5583	5147

FLYSAK shares OEM intelligent factory resources, provides a series of foundry production services for lubricating oil brands in the industry. FLYSAK has cooperated with more than 30 well -known brands. We strive to product innovation, continuously meet the different needs of the market, and develop together with more outstanding brand partners!

Years of experience | Customization support | Manufacturer supply | Quality assurance | Various varieties

OEM ODM

Packing: 1Lx12 4Lx4 4Lx6 5Lx4 18L 20L 200L 1000L

FULL SYNTHETIC GASOLINE ENGINE OIL QN-D8

• Using global high-quality base oil and internationally renowned brand additives, it comprehensively improves engine performance and effectively improves fuel economy.• Effectively reduces noise and wear during engine start-stop and driving.• Excellent cleaning and dispersing performance keeps the engine clean for a long time and effectively extends the life of components.• Excellent high and low temperature performance, can easily cope with high summer temperatures and severe winter cold and other harsh environments.• Can meet the engine lubrication requirements for current and past automotives.

API SERVICE SAE xxW-yy RESOURCE CONSERVING SN PLUS

AMERICAN PETROLEUM INSTITUTE FOR GASOLINE ENGINES CERTIFIED

GERMANY TECHNOLOGY

Test Parameters	Method	Typical Values					
		SP GF-6 5W-30	SP 5W-20	SP 5W-40	SP 10W-30	SP 10W-40	SP 20W-50
Viscosity @100°C, cSt	GB/T 265-2004	11.17	8.3	14.3	11.1	14.71	19.29
Viscosity @40°C, cSt	GB/T 265-2004	69.02	49.07	92.02	74.49	104.5	166.1
Viscosity Index	GB/T 2541-2004	154	144	158	139	146	133
Flash point °C	GB/T 3536-2008	230	234	226	232	238	252
Pour point °C	GB/T 3535-2006	-42	-43	-40	-36	-35	-25
CCS mPa.s	GB/T 6538-2010	5950	4815	5682	4815	5985	7928

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OEM ODM

Packing: 1Lx12 4Lx4 4Lx6 5Lx4 18L 20L 200L 1000L

ESTER FULL SYNTHETIC ENGINE OIL QN-F8

• Using global high-quality base oil and internationally renowned brand additives, it comprehensively improves engine performance and effectively improves fuel economy.• Effectively reduces noise and wear during engine start-stop and driving.• Excellent cleaning and dispersing performance keeps the engine clean for a long time and effectively extends the life of components.• Excellent high and low temperature performance, can easily cope with high summer temperatures and severe winter cold and other harsh environments.• Can meet the engine lubrication requirements for current and past automotives.

API SERVICE SAE xxW-yy RESOURCE CONSERVING SN PLUS

AMERICAN PETROLEUM INSTITUTE FOR GASOLINE ENGINES CERTIFIED

GERMANY TECHNOLOGY

Test Parameters	Method	Typical Values	
		SP ACEA A3/B4 5W-30	SP ACEA A3/B4 5W-40
Viscosity @100°C, cSt	GB/T 265-2004	11.06	14.26
Viscosity @40°C, cSt	GB/T 265-2004	68.28	91.02
Viscosity Index	GB/T 2541-2004	154	162
Flash point °C	GB/T 3536-2008	224	226
Pour point °C	GB/T 3535-2006	-41	-41
CCS mPa.s	GB/T 6538-2010	5079	5342

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OEM ODM

Packing: 1Lx12 4Lx4 4Lx6 5Lx4 18L 20L 200L 1000L

TRANSMISSION MAINTENANCE EXPERTS AROUND YOU

- Smooth Shifting
- Enhance Friction Protection
- Accurate Speed Change And Shift
- Improve Transmission Efficiency

AUTOMATIC TRANSMISSION FLUID
MANUAL TRANSMISSION FLUID

- Using global high-quality base oils and internationally renowned brand additives, we develop various transmission oil products that are suitable for every transmission.
- Improve the smoothness of transmission shifting, reduce shifting setbacks, and improve driving comfort.
- Reduce transmission wear, improve fuel economy, and make the transmission efficiency higher.

GERMANY TECHNOLOGY

Test Parameters	Method	Typical Values						
		ATF 5HP	ATF JK6	DEXRON III	DEXRON VI	CVTF -NS3	DCTF DW7	MTF 75W-90
Viscosity @100°C, cSt	GB/T 265-2004	7.25	6.8	7.12	7.08	7	9.59	15.69
Viscosity @40°C, cSt	GB/T 265-2004	42.08	37.09	40.15	38.91	39.5	49.8	88.86
Viscosity Index	GB/T 2541-2004	136	143	140	145	139	180	189
Flash point °C	GB/T 3536-2008	228	224	230	226	223	234	220
Pour point °C	GB/T 3535-2006	-46	-47	-45	-48	-45	-45	-40

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OEM ODM

Packing: 1Lx12 18L 20L 200L 1000L

HIGH PERFORMANCE HEAVY DUTY HIGH POWER DIESEL ENGINE OIL

API SERVICE SAE xxW-yy RESOURCE CONSERVING

AMERICAN PETROLEUM INSTITUTE FOR DIESEL ENGINES CERTIFIED

Lubrizol USE LUBRIZOL ADDITIVES | LOWSAPS | EGR | DPF | SCR

EFFICIENT LUBRICATION
LASTING PROTECTION

FLYSAK® Diesel Engine Oil

HEAVY DUTY HIGH POWER DIESEL ENGINE OIL HX

● Using global high-quality base oil and internationally renowned brand additives, unique environmentally friendly formula, comprehensively improve engine performance, effectively improve fuel economy.● Excellent cleaning and dispersing performance, effectively disperse and control high-temperature deposits, keep the engine clean for a long time.● Excellent anti-friction and anti-wear performance, reduce engine wear and improve power.● Ultra-long oil change cycle, effectively extend engine life, provide ultimate protection for the engine.● Extremely low evaporation loss, reduce oil consumption and maintenance costs.● Suitable for heavy-duty diesel engines with advanced emission devices such as EGR and SCR, especially for engines equipped with DPF. It can also be used in various engineering machinery in non-road industries such as mining, construction, agriculture, etc.

API SERVICE SAE xxW-yy RESOURCE CONSERVING

AMERICAN PETROLEUM INSTITUTE FOR DIESEL ENGINES CERTIFIED

GERMANY TECHNOLOGY

Test Parameters	Method	Typical Values												
		CF-4 15W-40	CF-4 20W-50	CH-4 15W-40	CH-4 20W-50	CI-4 15W-40	CI-4 20W-50	CJ-4 15W-40	CJ-4 20W-50	CJ-4 SN 20W-50	CK-4 10W-40	CK-4 15W-40	CK-4 20W-50	C3 5W-30
Viscosity @100°C, cSt	GB/T 265-2004	15.15	19.82	15.16	20.55	15.3	20.45	15.06	20.01	14.82	14.62	14.94	20.46	11.7
Viscosity @40°C, cSt	GB/T 265-2004	117.33	178.32	118.86	193.5	118.25	189.36	114.98	183.82	102.81	103.55	116.19	191.16	68.15
Viscosity Index	GB/T 2541-2004	134	128	132	125	135	126	136	126	150	146	133	125	157
Flash point ℃	GB/T 3536-2008	235	250	230	255	240	256	232	255	230	235	235	245	228
Pour point ℃	GB/T 3535-2006	-30	-23	-33	-25	-30	-24	-32	-25	-31	-35	-33	-23	-40
CCS mPa.s	GB/T 6538-2010	5260	7545	5600	8700	5877	7962	5376	8853	5950	6065	5544	8566	4638

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Years of experience | Customization support | Manufacturer supply | Quality assurance | Various varieties

OEM ODM

Packing: 4Lx6 5Lx4 18L 20L 200L 1000L

BRAKE FLUID

Deeply Maintenance

Safe And High Class

Make Driving More Safely

DOT 4 DOT 3

GERMANY TECHNOLOGY

BRAKE FLUID DOT 4 DOT 3

● Using German advanced technology formulation, with high boiling point, low viscosity ,this brake fluid is suitable for highway, mountain road and other frequent brake requirements, not easy to produce air resistance.● This product has a protective effect on the rubber bowl and metal parts of the brake system. It has excellent anti-rust and anti-corrosion effect.● suitable for the latest technology of ABS/EBD/ESC and DSC electronic braking system of vehicles.● Suitable for various microcars, cars, buses and trucks with hydraulic brakes, load-carrying vehicles and engineering machinery vehicles.

GERMANY TECHNOLOGY

Test Parameters	Method	Typical Values	
		DOT 4	DOT 3
ERBP/°C	SH/TP430-92	242	219
WERBP/°C	SH/TP430-92	163	152
Viscosity @100°C, mm²/S	GB/T 265-2004	2.01	1.97
Density @ 15°C,kg/m³	GB/T 2540	1.12	1.13
Viscosity @-40°C, mm²/S	GB/T 265-2004	1332	1302
PH	PH Tester	9.01	8.87
Conductivity	Conductivity meter	2.2	2.5
Water %	GB/T6283-2008	0.095	0.11

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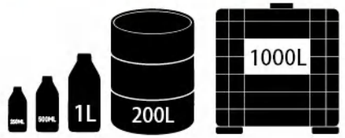
Years of experience | Customization support | Manufacturer supply | Quality assurance | Various varieties

OEM ODM

Packing: 250ml/gX24 300ml/gX24 500ml/gX24 1LX12 18L 20L 200L 1000L



MOTORCYCLE ENGINE OIL
THREE-WHEEL MOTORCYCLE ENGINE OIL

● Motorcycle Engine Oil Series.● Using global high-quality base oil and internationally renowned brand additives.
● Lubricates and resists wear, reducing wear caused by high-speed engine operation.● Cools and reduces temperature, helping the water tank to cool the engine and prevent overheating.● Reduces carbides, sludge, and metal wear particles, keeping the inside of the engine clean.● Seals and prevents leakage, reducing gas leakage and preventing external pollutants from entering.● Ensures efficient operation and extends the service life of the motorcycle engine.

M086 FLY 012 MA2 — JASO T 903:2023 RERFORMANCE IS GUARANTEED by Flysak Lubrication Technology Co., Ltd

M086 FLY 011 MB — JASO T 903:2023 RERFORMANCE IS GUARANTEED by Flysak Lubrication Technology Co., Ltd

M086 FLY 011 MA2 — JASO T 903:2023 RERFORMANCE IS GUARANTEED by Flysak Lubrication Technology Co., Ltd

GERMANY TECHNOLOGY

Test Parameters	Method	Typical Values															
		API SN 10W-40	API SN 10W-50	API SN 20W-50	API SG 10W-30	API SG 15W-40	API SG 20W-50	API SL 10W-40	API SL 20W-50	API SF 10W-30	API SF 15W-40	API SF 20W-50	API SJ 10W-40	API SJ 15W-40	API SJ 20W-50	three-wheel motorcycle API SL 15W-40	three-wheel motorcycle API SL 20W-50
Viscosity @100℃, cSt	GB/T 265-2004	14.6	19.05	19.4	11.07	14.47	18.6	14.53	19.24	11.1	14.89	19.34	14.38	15.15	19.06	14.87	18.63
Viscosity @40℃, cSt	GB/T 265-2004	103.03	144.1	162.7	74.2	108.8	165.9	103.5	173.64	74.49	111.8	181.72	100.61	113.32	172.4	113.01	162.98
Viscosity Index	GB/T 2541-2004	146	151	137	139	136	124	145	127	139	138	122	147	139	126	136	129
Flash point ℃	GB/T 3536-2008	234	238	252	238	245	245	230	250	238	238	245	232	238	252	245	248
Pour point ℃	GB/T 3535-2006	-33	-32	-25	-36	-34	-25	-33	-25	-40	-35	-22	-32	-30	-24	-33	-25

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Years of experience | Customization support | Manufacturer supply | Quality assurance | Various varieties

OEM ODM

Packing: 1Lx12 1Lx16 18L 20L 200L 1000L

Advanced Long-lasting Antifreeze Coolant

-25°C -45°C

PINK GREEN

• It has antifreeze in winter, anti-boiling in summer, and can be used in all seasons. It has multiple functions such as anti-corrosion, anti-scaling, anti-rust, and anti-foaming, and is suitable for various water-cooled mechanical applications.• Effectively inhibit the electrochemical corrosion of the engine cooling system, effectively extend the service life of the cooling system, and ensure the normal operation of the vehicle.• Applicable to various cars, SUV MPVs and light vehicles, heavy-duty trucks, buses, vans, construction machinery, agricultural machinery, etc.

5 in 1

- anti-rust
- anti-scale
- antiboiling
- antifreezing
- corrosion protection

ADVANCED LONG-LASTING ANTIFREEZE COOLANT -25°C -45°C

• It has antifreeze in winter, anti-boiling in summer, and can be used in all seasons. It has multiple functions such as anti-corrosion, anti-scaling, anti-rust, and anti-foaming, and is suitable for various water-cooled mechanical applications.• Effectively inhibit the electrochemical corrosion of the engine cooling system, effectively extend the service life of the cooling system, and ensure the normal operation of the vehicle.• Applicable to various cars, SUV MPVs and light vehicles, heavy-duty trucks, buses, vans, construction machinery, agricultural machinery, etc.

GERMANY TECHNOLOGY

Test Parameters	Method	Organic Synthetic Antifreeze Coolant	
		— 25°C	— 45°C
Color	By eyes	green or pink	green or pink
Density (20°C), kg/m³	SH/T 0068	1.06	1.06
Boil point	SH/T 0089	108	108
Freezing point	SH/T 0090	-28	-46
PH	SH/T 0069	8.3	9.2
Chlorinity（mg/kg）	SH/T 0621	58	58

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- Years of experience
- Customization support
- Manufacturer supply
- Quality assurance
- Various varieties

OEM ODM

Packing: 2Lx10 4Lx4 4Lx6 5Lx4 18L 20L 200L 1000L

GEAR OIL

GL-4 GL-5

GEAR OIL

● Using global high-quality base oil and internationally renowned brand additives.● Gear oil can significantly reduce the wear of gears and moving parts and extend the service life of gears.● It can form a protective film on the tooth surface to prevent corrosion, reduce direct contact between metal and metal, and reduce wear caused by friction.● It can reduce power loss and improve mechanical efficiency. Reduce noise, vibration, etc.● It can disperse heat, play a certain cooling effect, and prevent ablation and bonding caused by partial high temperature.

GERMANY TECHNOLOGY

Test Parameters	Method	Typical Values		
		GL-5 85W-90	GL-5 85W-140	GL-4 80W-90
Viscosity @100°C, cSt	GB/T 265-2004	16.07	27.52	15.3
Viscosity @40°C, cSt	GB/T 265-2004	173.92	362.34	147.01
Viscosity Index	GB/T 2541-2004	95	102	106
Flash point °C	GB/T 3536-2008	232	230	230
Pour point °C	GB/T 3535-2006	-25	-19	-27

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OEM ODM

Packing: 1Lx12 4Lx6 5Lx4 18L 20L 200L 1000L

Antiwear Hydraulic Oil

32# 68# 46#

Description
- Excellent wear resistance, reducing hydraulic pump and valve system wear.
- Excellent thermal stability and oxidation stability, which can effectively extend the service life of oil products.
- Good rubber adaptability, effectively protect the sealing materials and prevent leakage.
- Add multi-effect preservatives, which have good anti-corrosion effect on various blade pumps, gear pumps, plunger pumps, valves and oil cylinders.
- Good cleanliness to prevent contaminants from damaging system components.

Product application
- Suitable for hydraulic systems for all kinds of construction machinery and large transport vehicles.It is widely used in hydraulic equipments that requiring good oxidation stability and lubricity.

ANTIWEAR HYDRAULIC OIL

- Using global high-quality base oil and internationally renowned brand additives.
- High-performance anti-wear hydraulic oil, meeting the needs of various hydraulic systems.
- Good lubrication performance, reducing friction and wear of various components in the hydraulic system, and extending the service life of the equipment.● Good sealing performance, preventing the entry of gas and impurities, keeping the system clean and working properly.
- Good thermal stability, maintaining stable lubrication and flow properties in high temperature environments, not easy to deteriorate and oxidize.● Good anti-wear performance, reducing wear of various components in the hydraulic system, and improving the operating efficiency of the equipment.● Good stability and reliability, maintaining consistent performance under various working conditions.

GERMANY TECHNOLOGY

Test Parameters	Method	Typical Values		
		32#	46#	68#
Viscosity @100°C, cSt	GB/T 265-2004	5.42	6.97	8.91
Viscosity @40°C, cSt	GB/T 265-2004	31.52	46.51	68.98
Viscosity Index	GB/T 2541-2004	105	106	102
Flash point °C	GB/T 3536-2008	228	232	245
Pour point °C	GB/T 3535-2006	-23	-22	-21

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OEM ODM

Packing: 18L 20L 200L 1000L

OIL SPECIFICATION & APPLICATION GUIDELINES

Selecting the right engine oil is critical for ensuring long-term engine performance, reliability, and compliance with OEM standards.
General Selection Guidelines:
Always consult the vehicle owner's manual for the recommended oil specification and viscosity grade
Use engine oil that meets or exceeds the manufacturer's quality standards (API, ILSAC, ACEA)
Quality Grade Selection:
Choose a quality grade that matches or exceeds the OEM specification
For gasoline engines, refer to API 'S' series ratings (e.g., SN, SP). Higher letters mean newer and more advanced standards
Viscosity Grade Selection:
Maintain the specified viscosity recommended by the engine manufacturer
For older engines with higher mileage and increased internal clearance, a higher viscosity oil (e.g., 10W-40 or 15W-40) may be preferable
For cold climates, opt for lower 'W' grade oils (e.g., 0W-20 or 5W-30) to ensure smooth cold starts
Hybrid Engine Oils:
Hybrid engines often utilize Atkinson cycle technology and have unique lubrication requirements
Use fully synthetic low-viscosity oils (e.g., 0W-20, 0W-16) for better fuel efficiency and reduced friction
Turbocharged & GDI Engines:
Require oils with strong protection against oxidation, LSPI (Low-Speed Pre-Ignition), and wear
Recommended oils: API SN PLUS or SP with ACEA C2, C3, or C5 specifications
Vehicles with GPF (Gasoline Particulate Filter):
Use low-SAPS oils that reduce ash content to avoid clogging the GPF
Look for API SP and ACEA C-series (e.g., C2, C3, C5) oils
Summary: Matching the right oil specification with your engine type and operating environment ensures optimal performance, reduced emissions, and longer engine life.

ENGINE OIL VISCOSITY & CLASSIFICATION

Engine oil viscosity refers to the oil's resistance to flow and is one of the most critical properties for engine protection and efficiency.
Viscosity Grades: Expressed in numbers like 0W-20, 5W-30, or 10W-40
The number before the 'W' (e.g., 0W, 5W) indicates the oil's low-temperature (winter) performance. A lower number means better flow at cold temperatures
The number after the 'W' (e.g., 20, 30, 40) represents the oil's viscosity at high operating temperatures (100°C). Higher numbers indicate thicker oils suited for higher temperature or severe conditions
Multigrade Oils: Modern engine oils are typically multigrade, meaning they are designed to perform well in both cold starts and high-temperature conditions. For example, 5W-30 oil flows well in cold conditions and maintains sufficient thickness when hot

FREQUENTLY ASKED QUESTIONS (FAQS)

This section addresses common concerns and misconceptions about engine oil usage, selection, and performance.

Q1: Why does engine oil turn black after use?
A: This is a normal process. High-quality oils contain detergents and dispersants that clean the engine and suspend impurities in the oil, causing it to darken. Dark oil indicates it is doing its job, not that it's failed.
Q2: Is oil consumption a sign of poor-quality oil?
A: Not necessarily. All engines consume some oil during operation. Factors include engine design, age, driving style, and oil type. Always check OEM oil consumption tolerances. For example, some turbocharged engines may consume up to 0.5-0.7L per 1000 km.
Q3: Why is there sludge or carbon deposits after oil use?
A: Possible reasons include excessive engine temperature, poor air filtration, extended oil change intervals, or using low-quality oil. Regular maintenance and using certified oils help prevent sludge formation.
Q4: Why did my fuel consumption increase after changing oil?
A: Reasons may include incorrect oil viscosity, low tire pressure, carbon buildup in throttle/injectors, or sensor faults. Use oil recommended by the vehicle manual and address mechanical issues.
Q5: What causes low oil pressure or warning lights after an oil change?
A: Common causes include insufficient oil fill, wrong oil viscosity, clogged filter, or oil pump/sensor faults. Always check the oil level, type, and system components.
Q6: Why does the engine sound louder after an oil change?
A: Possible causes include oil overfill, wrong viscosity, or blending different oil brands. Engine noise often normalizes after several hundred kilometers.
Q7: What oil should hybrid vehicles use?
A: Hybrid engines benefit from low-viscosity full synthetic oils (e.g., 0W-20, 0W-16) for improved fuel economy and compatibility with high-efficiency engines.
Q8: What oil is best for turbocharged and GDI engines?
A: Use API SN PLUS or SP grade oils with LSPI protection and strong antioxidant properties. ACEA C2, C3, or C5 specs also provide enhanced soot and emission control.
Q9: What oil should I use for vehicles with GPF (Gasoline Particulate Filter)?
A: Low-SAPS oils like API SP and ACEA C3/C5 help reduce ash and prevent GPF clogging, ensuring compliance with emission standards.
Q10: Is API SP better than previous specifications?
A: Yes. API SP provides better protection against wear, oxidation, sludge, and LSPI. It also includes new tests for timing chain and turbocharger protection and is compatible with GF-6A/B fuel economy standards.
Q11: What are the benefits of ACEA C-series oils?
A: ACEA C-grade oils are designed for engines with emission control systems. They offer low ash content and strong oxidation control, helping protect DPFs, GPFs, and catalytic converters while maintaining performance.

API American Petroleum Institute
EELQMS
ACEA EUropean Automobile Manufacturers Association
ISO 9001 ISO 14001 ISO 45001 SGS CNAS

Mobil S-OIL Afton Infineum Lubrizol Chevron