

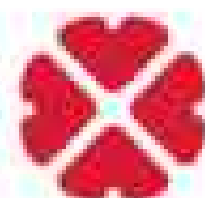


NISHIMOTO LUBRICATING OIL BROCHURE

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www.nishimoto.co.jp

2024/12/24



西本潤滑油 製品マニュアル

NISHIMOTO LUBRICATING OIL BROCHURE

20240308

NISHIMOTO



NISHIMOTO



西本石油精工株式会社
NISHIMOTO Petrochemical Refine Co., Ltd

COMPANY PROFILE

企業紹介です

西本は車の歴史を持つ日本の潤滑剤ブランドである。高度な潤滑剤の開発と生産に力を注いでおり、「信頼できる潤滑剤、潤滑油」を最大の理念としている。同社の「西本エクスポートオイルの品質管理システム」は、高度な品質を確保し、お客様に確実な安定した潤滑剤を提供する潤滑剤製造を目的とします。インテグリティは常に品質管理の中心にあり、最高品質の潤滑剤を製造して、エンジンの特徴を保持し、潤滑を改善し、最も信頼性の高いエンジン潤滑剤を製造するソリューションを追求しています。西本は、潤滑剤の性能と信頼性を向上させています。潤滑剤の性能を向上し、オイルの性能を向上させることで、お客様が最高のパフォーマンスを実現しながら燃費効率を向上させることができます。性能と信頼性の両方に配慮し、西本は潤滑剤の品質とリードを確保し、世界中の個人ユーザーと商用ユーザーの両方のニーズを満たす製品を提供しています。

NISHIMOTO is a Japanese lubricant brand with years of history, focused on the development and production of advanced lubricants, guided by the core philosophy of "long-lasting, durable, super protection." The "Nishimoto expert-level quality management system" ensures consistent, reliable product quality, providing our customers with consistent, stable, and reliable lubricant products. We are also in full synthetic lubricants, utilizing cutting-edge technology to create solutions that extend engine life, improve fuel efficiency, and protect critical engine components under the harshest conditions.

NISHIMOTO is committed to sustainability and environmental protection. By reducing waste oil emissions and extending oil change intervals, we help customers reduce their carbon footprint while maintaining top performance. With a dedication to both performance and the environment, NISHIMOTO continues to innovate and lead in the lubricant industry, ensuring that our products meet the needs of both personal and commercial users worldwide.

MODERNIZATION FACTORY

近代化工場

工場は先進的な中央集中制御システムを構築し、生産設備の生産管理、製品生産過程の品質管理、潤滑剤の製造、品質管理、出入材料の管理を実現しています。

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

20000m²
floor space
建設エリアの建設

10000tons
storage capacity
貯蔵能力

60000tons
annual capacity
年産能力



LABORATORY PERFORMANCE TESTING

実験室性能テスト

潤滑剤の品質テストは、出荷前に品質を上げるための性能テストを受けます。すべてのデータは、製品をリリースする前にCapStoneとCPI国際的な試験基準を満たすか、それを超える必要があるためです。

Before being shipped, each batch of lubricating oil undergoes rigorous laboratory performance testing. All data must meet or exceed international certification standards such as API and ACEA before the products are released.



FULL TRACE ABILITY, ENSURING TRUST IN EVERY DROP OF OIL

完全なトレーサビリティ、オイルの一滴一滴の信頼性を保証します

西本潤滑剤のすべてのボトルには、高度な品質トレーサビリティが実装されています。

製品のロット番号を示して、私たちは全体のプロセスの透明性を確保し、顧客の信頼を確保し、生産日、品質レポート、テストレポート、包装プロセス、包装プロセスを透明にします。

Every bottle of NISHIMOTO lubricant is equipped with complete quality traceability records.

Through the product batch number, we can trace the production date, raw material source, test reports, and packaging process, ensuring transparent management of the entire process and strengthening customer trust.



DLOPT™は、エンジン油膜保護フィルムは、高温・高圧などの過酷な使用条件下に投入されるように設計された革新的な潤滑技術です。この技術により、潤滑油は油膜の形成を効果的に抑制し、潤滑油に与えるダメージを軽減することが出来ます。この結果によりエンジン油膜の形成を抑制し、潤滑油の性能を向上させることで、エンジン内部の汚れと磨耗を軽減します。

DLOPT™ Dual-layer Lubricating Oil Protective Film is an innovative lubrication technology designed to withstand high operating conditions such as high temperatures and high pressures. This technology allows the lubricating oil to effectively suppress oil oxidation and form a dual-layer protective film on the friction surface. The dual-layer structure provides long-lasting protection for the engine, reducing friction and wear, thereby improving engine efficiency and extending its lifespan.



LLECT™技術により、潤滑油はエンジン内部の汚れを効果的に抑制し、エンジン内部の汚れを軽減します。この結果により、エンジン内部の汚れを軽減し、エンジン内部の汚れを軽減します。

With the LLECT™ formula, lubricating oil effectively reduces 99% of acidic substances, providing sustained cleaning power. This formula neutralizes acidic compounds, helping to suppress the formation of sludge and deposits, keeping the engine's interior clean and enhancing engine performance and longevity.

STRICT RAW MATERIAL SELECTION

厳格な原料の選択

当社は、ベースオイルおよび添加剤の両方がグローバルサプライヤーと長期的なパートナーシップを結んでいます。すべての材料は国際的なハイエンド規格を満たしており、一貫性と安定性を確保するために、生産に入る前に厳格な物理的および化学的試験に合格する必要があります。

We have long-term partnerships with leading global suppliers of base oils and additives.

All materials meet international high-end standards and must pass multiple physical and chemical tests before entering production to ensure consistency and quality.



THE BASE OIL PURITY IS AS HIGH AS

基油の清浄度が高い

99.1%

Complete Product Line 完全な製品ライン

After more than years of development, has developed 8 categories that perfectly fit the world market, 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.

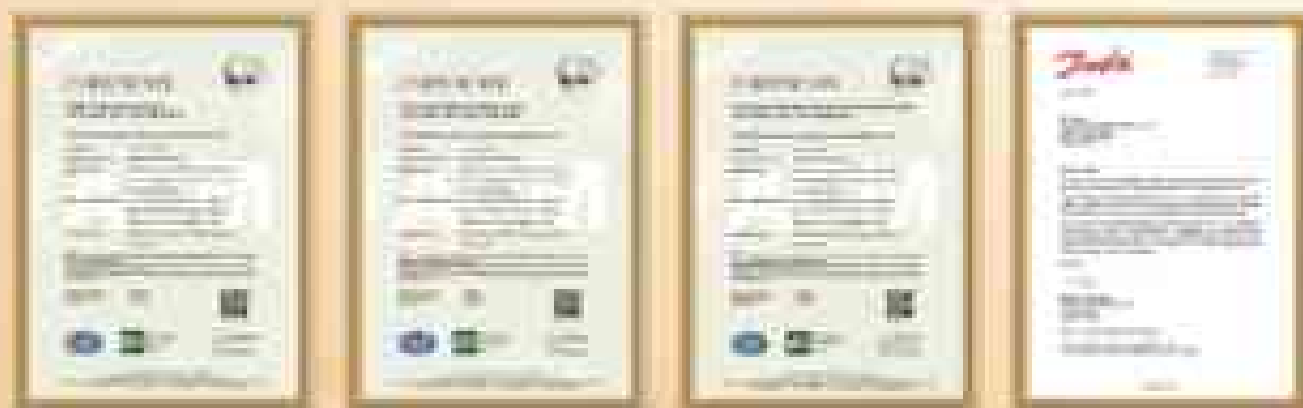
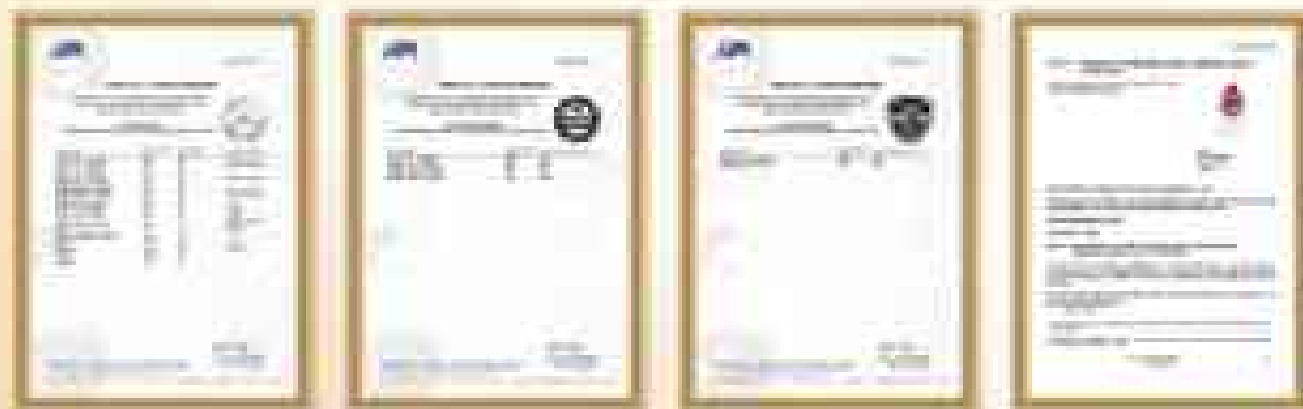
Catalogue 目録

GASOLINE ENGINE OIL	09-14
DIESEL ENGINE OIL	15-18
TRANSMISSION FLUID	19-21
MOTORCYCLE LUBRICATING OIL	22-24
GEAR OIL	25-26
ANTIFREEZE COOLANT	27-28
BRAKE FLUID	29-29
ENGINE FUEL SYSTEM AUXILIARY	30-30



HONOR AND QUALIFICATION 名譽と資格

We cooperate with international third-party testing organizations to regular sample products and conduct independent testing, ensuring long-term product stability and compliance with global quality standards. We have successfully obtained API, ACEA, SGS and ISO certificates.



CERTIFICATE OF AUTHORIZATION

授權書



QUALITY ASSURANCE LETTER

品質承諾書



NISHIMOTO POD material

景品リストです



Cap



T-shirt



Jacket



Uniform



Raincoat



Pen



Notebook



Catalog



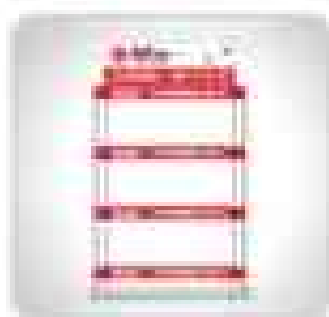
Flag



Inflatable arch



Umbrella



Shelf



Tents



Engine oil funnel



Sticker



3 Pcs car repair fender
cover protector mats

ESTER FULLY SYNTHETIC MULTI APPLICATION ENGINE OIL

エステル類全合成
マルチ用途エンジンオイル



ESTER FULLY SYNTHETIC MULTI APPLICATION ENGINE OIL



ESTER FULLY SYNTHETIC
MULTI APPLICATION ENGINE OIL

API SP GF-6

SAE 0W-20

N2



1L/1.72 4L/34 5L/34 20L 200L 208L

Key Features

- Meets all of current & future engine oil requirements - latest test methods - and exceeds them.
- SAE 0W-20 viscosity - meets & exceeds all requirements during cold start and extended oil drain periods.
- Advanced formula - formulated to reduce friction and improve engine performance.
- Excellent oil life and engine protection for long drain intervals - up to 10,000 km.
- Formulated with excellent engine oil stability - ensuring that 0W-20 viscosity is maintained throughout the engine's service life.

Key Benefits

- API SP
- SAE 0W-20
- Meets all of current & future engine oil requirements - latest test methods - and exceeds them.
- SAE 0W-20 viscosity - meets & exceeds all requirements during cold start and extended oil drain periods.
- Advanced formula - formulated to reduce friction and improve engine performance.

Key Applications

- For gasoline engines in light trucks, vans, and cars.
- For diesel engines in light trucks, vans, and cars.
- For gasoline engines in heavy trucks, vans, and cars.
- For diesel engines in heavy trucks, vans, and cars.
- For gasoline engines in light trucks, vans, and cars.
- For diesel engines in light trucks, vans, and cars.



ESTER FULLY SYNTHETIC
MULTI APPLICATION ENGINE OIL

API SP GF-6

ACEA C2/C3

SAE 0W-30

N2



1L/1.72 4L/34 5L/34 20L 200L 208L

Key Features

- Meets all of current & future engine oil requirements - latest test methods - and exceeds them.
- SAE 0W-30 viscosity - meets & exceeds all requirements during cold start and extended oil drain periods.
- Advanced formula - formulated to reduce friction and improve engine performance.
- Excellent oil life and engine protection for long drain intervals - up to 10,000 km.
- Formulated with excellent engine oil stability - ensuring that 0W-30 viscosity is maintained throughout the engine's service life.

Key Benefits

- API SP
- SAE 0W-30
- Meets all of current & future engine oil requirements - latest test methods - and exceeds them.
- SAE 0W-30 viscosity - meets & exceeds all requirements during cold start and extended oil drain periods.
- Advanced formula - formulated to reduce friction and improve engine performance.

Key Applications

- For gasoline engines in light trucks, vans, and cars.
- For diesel engines in light trucks, vans, and cars.
- For gasoline engines in heavy trucks, vans, and cars.
- For diesel engines in heavy trucks, vans, and cars.
- For gasoline engines in light trucks, vans, and cars.
- For diesel engines in light trucks, vans, and cars.



ESTER FULLY SYNTHETIC
MULTI APPLICATION ENGINE OIL

ACEA A3/B4

API SP

SAE 5W-30

N3



1L/1.72 4L/34 5L/34 20L 200L 208L

Key Features

- Meets all of current & future engine oil requirements - latest test methods - and exceeds them.
- SAE 5W-30 viscosity - meets & exceeds all requirements during cold start and extended oil drain periods.
- Advanced formula - formulated to reduce friction and improve engine performance.
- Excellent oil life and engine protection for long drain intervals - up to 10,000 km.
- Formulated with excellent engine oil stability - ensuring that 5W-30 viscosity is maintained throughout the engine's service life.

Key Benefits

- API SP
- SAE 5W-30
- Meets all of current & future engine oil requirements - latest test methods - and exceeds them.
- SAE 5W-30 viscosity - meets & exceeds all requirements during cold start and extended oil drain periods.
- Advanced formula - formulated to reduce friction and improve engine performance.

Key Applications

- For gasoline engines in light trucks, vans, and cars.
- For diesel engines in light trucks, vans, and cars.
- For gasoline engines in heavy trucks, vans, and cars.
- For diesel engines in heavy trucks, vans, and cars.
- For gasoline engines in light trucks, vans, and cars.
- For diesel engines in light trucks, vans, and cars.



ESTER FULLY SYNTHETIC
MULTI APPLICATION ENGINE OIL

ACEA A3/B4

API SP

SAE 5W-40

N3



1L/1.72 4L/34 5L/34 20L 200L 208L

Key Features

- Meets all of current & future engine oil requirements - latest test methods - and exceeds them.
- SAE 5W-40 viscosity - meets & exceeds all requirements during cold start and extended oil drain periods.
- Advanced formula - formulated to reduce friction and improve engine performance.
- Excellent oil life and engine protection for long drain intervals - up to 10,000 km.
- Formulated with excellent engine oil stability - ensuring that 5W-40 viscosity is maintained throughout the engine's service life.

Key Benefits

- API SP
- SAE 5W-40
- Meets all of current & future engine oil requirements - latest test methods - and exceeds them.
- SAE 5W-40 viscosity - meets & exceeds all requirements during cold start and extended oil drain periods.
- Advanced formula - formulated to reduce friction and improve engine performance.

Key Applications

- For gasoline engines in light trucks, vans, and cars.
- For diesel engines in light trucks, vans, and cars.
- For gasoline engines in heavy trucks, vans, and cars.
- For diesel engines in heavy trucks, vans, and cars.
- For gasoline engines in light trucks, vans, and cars.
- For diesel engines in light trucks, vans, and cars.





LOW SALES

Lutetized

EGR

508

DPR



SAE 5W-30



100

- [illegible]

100

- [illegible]



CK-4/E9

SAE 10W-40



100

- **Effects of pH** (0.5 to 10.5) increased by increasing pH of the environment
- Low pH's (acidic) environment bring more organisms at pH 5.0 and 6.0 systems
- Increased water production and metabolic stability for microbial life in low pH
- **Microbial activity** at the water-high salt high temperature growing conditions
- **Exposure** to acid and change in pH the plasma protein and cellular protein synthesis
- **Exposure** to pH 10.5 could be causing apoptosis

100

- [illegible]



CK-4/E9

SAE 15W-40



- **1990s:** first use of and increase in monitoring the population for **antimicrobial resistance**
- **1991-1999:** 1999 is the last year that **antimicrobial resistance** was not included in the **WHO** **Global Burden of Disease**
- **2000-2009:** **antimicrobial resistance** was included in the **WHO** **Global Burden of Disease**
- **2010-2019:** **antimicrobial resistance** was included in the **WHO** **Global Burden of Disease**
- **2020-2029:** **antimicrobial resistance** was included in the **WHO** **Global Burden of Disease**
- **2030-2039:** **antimicrobial resistance** was included in the **WHO** **Global Burden of Disease**
- **2040-2049:** **antimicrobial resistance** was included in the **WHO** **Global Burden of Disease**
- **2050-2059:** **antimicrobial resistance** was included in the **WHO** **Global Burden of Disease**
- **2060-2069:** **antimicrobial resistance** was included in the **WHO** **Global Burden of Disease**
- **2070-2079:** **antimicrobial resistance** was included in the **WHO** **Global Burden of Disease**
- **2080-2089:** **antimicrobial resistance** was included in the **WHO** **Global Burden of Disease**
- **2090-2099:** **antimicrobial resistance** was included in the **WHO** **Global Burden of Disease**

100

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 - **Neuroscience training and applications** (neuroscience education, neuroscience careers, neuroscience professionals)
 - **Neuroscience news** (breakthroughs in **Alzheimer's, Cerebral Palsy, Epilepsy, Stroke, Multiple Sclerosis, Parkinson's Disease, and more**)
 - **Neuroscience and a World of Neuroscience** (neuroscience in the popular press, neuroscience in the arts)
 - **Neuroscience Connections** (with **IEEE** and **Neuroinformatics**)
 - **Neuroscience** (with **Neuroinformatics**)



HEAVY DUTY SYNTHETIC DIESEL ENGINE OIL

CJ-4
SAE 10W-40



4LX8 SLX4 20L 200L 208L

FEATURES/BENEFITS

- Meets API CJ-4 requirements for performance and protection in high-load diesel engines
- Enhances fuel economy, extending to protect against fuel, and reduce engine wear, reduce pressure
- For clean internal and combustion stability, ensure oil performance over extended service
- Effective control of soot, the burning rate, and soot deposits
- SAE 10W-40 grade provides comprehensive protection across the temperature range
- Suitable for engines with EGR and turbo loaded, compatible with EGR, turbochargers and soot

APPROVED BY

API CJ-4, ACEA E10, E11, E12
MAN 2F, 2F-2, 2F-3
MB 229.5
Mack E-2, E-3
Mercedes-Benz 229.5
Cummins 2008
Volvo 973, 974, 975

Shell Helix RACING
Shell Helix RACING Plus
Shell Helix RACING
Shell Helix RACING
Shell Helix RACING

RECOMMENDATIONS

- For diesel engines requiring oil with oil and oil
- Recommended for:
- Commercial trucks, long-haulage trucks, and heavy-duty operating engines
- Construction and mining equipment with high engine loads and improved fuel economy
- Agricultural machinery with high engine loads
- Suitable for Cummins, Volvo, Mack, Mercedes-Benz, MAN, Shell, Shell Helix RACING, and other engines with EGR, turbochargers and soot, or using high-sulfur fuels with modern



HEAVY DUTY SYNTHETIC DIESEL ENGINE OIL

CI-4/E7
SAE 15W-40



4LX8 SLX4 20L 200L 208L

APPROVED BY

API CJ-4, ACEA E10, E11, E12
MAN 2F, 2F-2, 2F-3
MB 229.5
Mack E-2, E-3
Mercedes-Benz 229.5
Cummins 2008
Volvo 973, 974, 975

API CJ-4, ACEA E10, E11, E12
MAN 2F, 2F-2, 2F-3
MB 229.5
Mack E-2, E-3
Mercedes-Benz 229.5
Cummins 2008
Volvo 973, 974, 975

API CJ-4, ACEA E10, E11, E12
MAN 2F, 2F-2, 2F-3
MB 229.5
Mack E-2, E-3
Mercedes-Benz 229.5
Cummins 2008
Volvo 973, 974, 975

RECOMMENDATIONS

- For heavy-duty and light commercial diesel engines requiring API CJ-4 and SAE 15W-40
- Recommended for:
- Trucks, buses, agricultural and construction machinery, including fleet equipment
- Naturally aspirated and turbocharged diesel engines without advanced aftertreatment systems
- Used for medium- to high-voltage vehicles, high-temperature engines, and medium fleet operations
- Compatible with engines from 1984 to Cummins, Volvo, Volvo, Shell Helix RACING, and other engines with EGR, turbochargers and soot, or using high-sulfur fuels with modern



DIESEL ENGINE OIL

CF-4
SAE 15W-40
SAE 20W-50



4LX8 SLX4 20L 200L 208L

FEATURES/BENEFITS

- Meets API CF-4 specifications for protection in diesel engines
- Enhances fuel economy and extends oil service intervals
- Good anti-oxidation and dispersancy to maintain engine cleanliness
- Excellent viscosity stability in low-temperature and high-temperature conditions
- Suitable for engines with EGR, turbochargers and soot, or using high-sulfur fuels with modern

RECOMMENDATIONS

- Light to medium duty diesel trucks, buses, and equipment with high engine loads
- Engines with turbochargers such as Cummins, Volvo, Volvo, Shell Helix RACING, and other engines with EGR, turbochargers and soot, or using high-sulfur fuels with modern
- Suitable for engines with EGR, turbochargers and soot, or using high-sulfur fuels with modern



APPROVED BY

API CF-4, ACEA E10, E11, E12
MAN 2F, 2F-2, 2F-3
MB 229.5
Mack E-2, E-3
Mercedes-Benz 229.5
Cummins 2008
Volvo 973, 974, 975

ENGINE OIL

HD 40



4LX8 SLX4 20L 200L 208L

FEATURES/BENEFITS

- SAE 40 viscosity oil for protection in high-temperature engine loads
- Excellent fuel economy and extends oil service intervals
- Recommended for all road vehicles, trucks, buses, and stationary engines
- Suitable for engines with EGR, turbochargers and soot, or using high-sulfur fuels with modern
- Excellent viscosity stability in low-temperature and high-temperature conditions

RECOMMENDATIONS

- Agricultural tractors and industrial diesel engines
- Stationary engines, water pumps, compressors, and other equipment in heavy-duty applications
- Engines with EGR, turbochargers and soot, or using high-sulfur fuels with modern

APPROVED BY

API CF-4, ACEA E10, E11, E12

HEAVY DUTY SYNTHETIC DIESEL ENGINE OIL

CI-4/E7
SAE 20W-50



4LX8 SLX4 20L 200L 208L

APPROVED BY

API CJ-4, ACEA E10, E11, E12
MAN 2F, 2F-2, 2F-3
MB 229.5
Mack E-2, E-3
Mercedes-Benz 229.5
Cummins 2008
Volvo 973, 974, 975

API CJ-4, ACEA E10, E11, E12
MAN 2F, 2F-2, 2F-3
MB 229.5
Mack E-2, E-3
Mercedes-Benz 229.5
Cummins 2008
Volvo 973, 974, 975

API CJ-4, ACEA E10, E11, E12
MAN 2F, 2F-2, 2F-3
MB 229.5
Mack E-2, E-3
Mercedes-Benz 229.5
Cummins 2008
Volvo 973, 974, 975

RECOMMENDATIONS

- For heavy-duty and light commercial diesel engines requiring API CJ-4 and SAE 20W-50
- Recommended for:
- Trucks, buses, agricultural and construction machinery, including fleet equipment
- Naturally aspirated and turbocharged diesel engines without advanced aftertreatment systems
- Used for medium- to high-voltage vehicles, high-temperature engines, and medium fleet operations
- Compatible with engines from 1984 to Cummins, Volvo, Volvo, Shell Helix RACING, and other engines with EGR, turbochargers and soot, or using high-sulfur fuels with modern



ENGINE OIL

HD 50



4LX8 SLX4 20L 200L 208L

FEATURES/BENEFITS

- SAE 50 viscosity oil for protection in high-temperature engine loads
- Excellent fuel economy and extends oil service intervals
- Suitable for engines with EGR, turbochargers and soot, or using high-sulfur fuels with modern
- Also applicable to gear systems, water pumps, compressors, and hydraulic systems, requiring SAE 50
- Not recommended for engines with advanced aftertreatment systems

RECOMMENDATIONS

- Heavy-duty diesel engines, large construction and mining equipment
- Heavy-duty construction, agriculture, and other engines requiring SAE 50
- Off-road equipment operating in heavy-duty conditions
- Engines with EGR, turbochargers and soot, or using high-sulfur fuels with modern

APPROVED BY

API CF-4, ACEA E10, E11, E12

M6 SYNTHETIC SPORT MOTORCYCLE OIL



800MLX12 1LX12 20L 200L 200L

**API SL
JASO MA2**

**SAE
15W-40 20W-50**



Recommendations

- This product has excellent oxidation resistance, effectively reducing the formation of gumming, lacquers and sediments at high temperatures of the engine, greatly strengthening the ability to resist oil oxidation, effectively control the growth of viscosity, and prevent the occurrence of piston due to oil deterioration.
- Excellent cleaning performance to prevent the fouling of piston rings.
- Excellent resistance to the most severe stress of the oil film on the oil can be prevent full oxidation products for combustion from causing wear parts of contact of the cylinder. Available of this product greatly improve engine running power, good combustion performance.
- Excellent lubrication performance for wet and load capacity.

Technical Features

- Suitable for lubrication of air cooled and water cooled four stroke motorcycles engine.

M6S SCOOTER SYNTHETIC SPORT MOTORCYCLE OIL



800MLX12 1LX12 20L 200L 200L

**API SL
JASO MB**

**SAE
10W-30 10W-40**



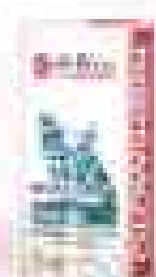
Recommendations

- Suitable for 10W-30 or 10W-40 all purpose scooter engine oil for various specifically for scooter 2 stroke engine system.
- It provides excellent wear protection, excellent thermal stability, and excellent clean performance, ensuring responsive acceleration and stable operation in urban and long distance, low temperature starting, thereby ensure a wide temperature range 10W-40 can be used for scooter and four-stroke compatible scooter engine wear and improve the engine performance.
- It improves throttle response and smooth gear shifts.

Technical Features

- Designed for scooter engine systems, meeting high performance oil of JASO MB for scooter engine models from Japanese, Honda, Yamaha, Kawasaki and Piaggio.
- Meet the urban commuting and long distance riding style.

M7 UNIVERSAL MOTORCYCLE OIL



800MLX12 1LX12 20L 200L 200L

**API SJ
JASO MA2**

**SAE
20W-50**



Recommendations

- API SAE 20W-50 is a high quality universal engine oil designed for 4 stroke motorcycle designed for performance, fuel and 20W-50 can be used in a wide range of the different engine sizes, power and design, meeting the oil in most motorcycle, especially those operating under high temperatures or heavy load conditions. It helps improve engine cleanliness and extend oil life, reducing the risk of oxidation for storage and long use. It also meets JASO MA2 certification process and meets compatibility.

Technical Features

- Meets the oil in JASO MA2. It meets universal engine designed for fuel and mileage performance, meeting API SJ and JASO MA2 standard for air-cooled 4-stroke engines. It also meets engine JASO MA2 for 4-stroke engine (Honda, Yamaha, Kawasaki, Piaggio, Suzuki, etc.) and other motorcycles.
- Recommended for those preferring conventional oil and mixed engine.

MAT-TWINMAX HEAVY DUTY ENGINE OIL FOR TRICYCLES AND UTILITY MOTORCYCLES



800MLX12 1LX12 20L 200L 200L

**API SL
JASO MA2**

**SAE
20W-50**



Recommendations

- Recommended for use in 20W-50 is a high viscosity mineral based engine oil specifically designed for three-wheel motorcycles, including cargo bikes, and utility, meeting the operating under heavy load and high temperatures of combined with double and even load demands. It provides more protection against oxidation, sludge, and engine wear, making it ideal for prolonged operation in hot urban and rural conditions. It is recommended for urban engine operation and meeting JASO MA2 oil grade for enhanced protection in four-stroke and three-stroke, especially 4-stroke wear protection under high load and low speed drive.

Technical Features

- Meets the oil in JASO MA2. It meets universal engine designed for fuel and mileage performance, meeting API SL and JASO MA2 standard for air-cooled 4-stroke engines. It also meets engine JASO MA2 for 4-stroke engine (Honda, Yamaha, Kawasaki, Piaggio, Suzuki, etc.) and other motorcycles.
- Recommended for those preferring conventional oil and mixed engine.

FLAT SYNTHETIC MOTORCYCLE ENGINE OIL



1LX16 20L 200L 200L

**API SL
JASO MA2**

**SAE
10W-40 15W-40
20W-50**



Recommendations

- This product has excellent oxidation resistance, effectively reducing the formation of gumming, lacquers and sediments at high temperatures of the engine, greatly strengthening the ability to resist oil oxidation, effectively control the growth of viscosity, and prevent the adverse effect of oxidation to oil deterioration. Excellent cleaning performance to prevent the fouling of piston rings. • Excellent resistance to the most severe stress of the oil film on the oil can be prevent full oxidation products for combustion from causing wear parts of contact of the cylinder. Available of this product greatly improve engine running power, good combustion performance.

Technical Features

- Suitable for lubrication of air cooled and water cooled four stroke motorcycles engine.

SYNTHETIC TECHNOLOGY MOTORCYCLE ENGINE OIL



1LX16 20L 200L 200L

**API SL
JASO MA2**

**SAE
10W-40 15W-40
20W-50**



Recommendations

- Excellent resistance to the most severe stress of the oil film on the oil can be prevent full oxidation products for combustion from causing wear parts of contact of the cylinder. Available of this product greatly improve engine running power, good combustion performance.
- Excellent resistance to the most severe stress of the oil film on the oil can be prevent full oxidation products for combustion from causing wear parts of contact of the cylinder. Available of this product greatly improve engine running power, good combustion performance.

Technical Features

- Suitable for lubrication of air cooled and water cooled four stroke motorcycles engine.

SYNTHETIC TECHNOLOGY MOTORCYCLE ENGINE OIL



1LX16 20L 200L 200L

**API SJ
JASO MA2**

**SAE
10W-40 15W-40
20W-50**



Recommendations

- Excellent resistance to the most severe stress of the oil film on the oil can be prevent full oxidation products for combustion from causing wear parts of contact of the cylinder. Available of this product greatly improve engine running power, good combustion performance.
- Excellent resistance to the most severe stress of the oil film on the oil can be prevent full oxidation products for combustion from causing wear parts of contact of the cylinder. Available of this product greatly improve engine running power, good combustion performance.

Technical Features

- Suitable for lubrication of air cooled and water cooled four stroke motorcycles engine.

TWO STROKE ENGINE OIL



1LX16 20L 200L 200L

2T



Recommendations

- Suitable for all types of high performance 2-stroke two-stroke engines.
- Suitable for 2-stroke engines in pre-mixed systems, mixed in oil and gas.

Technical Features

- It can be used in a mixed oil and gas system, or in a pre-mixed system.
- Suitable for water-cooled two-stroke engines and engines of various power.
- Suitable for two-stroke engines in pre-mixed and oil and gas.



高性能ギア油

HIGH PERFORMANCE GEAR OIL

GL-4 GL-5



HIGH PERFORMANCE GEAR OIL
FOR MANUAL TRANSMISSIONS AND
HYDRAULICS

GL-4
SAE 75W-80



1LX12 4LX4 5LX4 20L 200L 208L

HIGH PERFORMANCE GEAR OIL
FOR MANUAL TRANSMISSIONS
AND AXLES

GL-4
SAE 80W-90



1LX12 4LX4 5LX4 20L 200L 208L

FEATURES/BENEFITS

- Meets API GL-4 specifications for protection of performance
- Excellent gearshift compatibility, ensuring smooth gear shifts
- SAE 75W-80 viscosity provides enhanced fuel efficiency and cold flow properties
- Excellent oxidation and corrosion resistance under water heat
- Excellent against gear noise, corrosion, and wear
- Exceeds JASO MA2 and MA3 requirements by the JDM

APPROVED EQUIPMENT

API GL-4
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DESIGN REQUIREMENTS

- Manual transmissions, axles, and lightly loaded hydraulic gears
- Suitable for vehicles from European, Japanese, and Chinese manufacturers
- Recommended for trucks such as Renault, Peugeot, Volkswagen, Daimler AG, Mercedes-Benz, and others
- Used for gearboxes requiring low viscosity GL-4 fluids for excellent shifting and fuel economy

HIGH PERFORMANCE GEAR OIL
FOR MANUAL TRANSMISSIONS
AND DRIVE AXLES

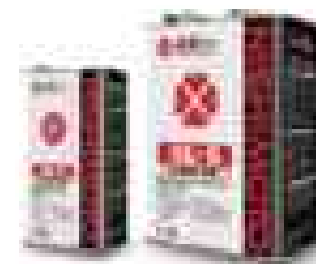
GL-5
SAE 75W-90



1LX12 4LX4 5LX4 20L 200L 208L

HEAVY DUTY GEAR OIL
FOR HYDRAULIC AXLES AND FINAL DRIVES

GL-5
SAE 80W-90



1LX12 4LX4 5LX4 20L 200L 208L

HEAVY DUTY GEAR OIL
FOR AXLES AND HYDRAULIC GEARS

GL-5
SAE 85W-140



1LX12 4LX4 5LX4 20L 200L 208L

FEATURES/BENEFITS

- Meets API GL-5 performance level for high-load hydraulic gear systems
- SAE 75W-90 viscosity ensures excellent low-temperature flow and high-temperature stability
- Exceptional protection against gear wear, pitting, and scuffing under shock loads
- Excellent bearing, oxidation, and corrosion resistance
- Suitable for both on-road and off-road applications
- Maximum performance under high-speed and high-load driving conditions

APPROVED EQUIPMENT

API GL-5 (API Service Oil 90)
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DESIGN REQUIREMENTS

- Heavy-duty axles, final drives, and hydraulic gears
- Suitable for trucks, heavy-duty equipment, and off-road applications
- Recommended for trucks such as Renault, Peugeot, Volkswagen, Daimler AG, Mercedes-Benz, and others
- Used for gearboxes requiring low viscosity GL-5 fluids for excellent shifting and fuel economy

FEATURES/BENEFITS

- Meets API GL-5 performance level for heavy-duty hydraulic gear systems
- SAE 80W-90 viscosity ensures excellent low-temperature flow and high-temperature stability
- Exceptional protection against gear wear, pitting, and scuffing under shock loads
- Excellent bearing, oxidation, and corrosion resistance
- Suitable for both on-road and off-road applications
- Maximum performance under high-speed and high-load driving conditions

APPROVED EQUIPMENT

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- Used for gearboxes requiring low viscosity GL-5 fluids for excellent shifting and fuel economy

FEATURES/BENEFITS

- Meets API GL-5 performance level for heavy-duty hydraulic gear systems
- SAE 85W-140 viscosity provides a thick lubricating film for heavy-duty applications
- Exceptional protection against gear wear, pitting, and scuffing under shock loads
- Excellent bearing, oxidation, and corrosion resistance
- Suitable for both on-road and off-road applications
- Maximum performance under high-speed and high-load driving conditions

APPROVED EQUIPMENT

API GL-5 (API Service Oil 140)
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- Used for gearboxes requiring low viscosity GL-5 fluids for excellent shifting and fuel economy

**HIGH PERFORMANCE BRAKING
STABILITY AND DURABILITY**



Abstract

- **General Information:** 1st Edition, 1994 (2nd Edition, 2004) - 500+ pages
- **Target Audience:** 1st Edition for 1st and 2nd Edition for 1st and 2nd
- **Content:** 1st Edition covers 1st and 2nd Edition for 1st and 2nd
- **Key Features:** 1st Edition covers 1st and 2nd Edition for 1st and 2nd
- **Primary Authors:** 1st Edition covers 1st and 2nd Edition for 1st and 2nd
- **Contributors:** 1st Edition covers 1st and 2nd Edition for 1st and 2nd

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- **2014** - 1st year with **strong** and **high** trading volume
- **2015** - 1st year with **moderate** trading volume and **moderate** trading volume
- **2016** - 1st year with **moderate** trading volume and **moderate** trading volume
- **2017** - 1st year with **moderate** trading volume and **moderate** trading volume

Journal of Management Inquiry 27(1) 3-16
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DOI: 10.1177/1056492618764201
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Abstract

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- `std::cout << "The sum of " << sum << " is " << sum << "\n";`
- `return sum;`
- `}`

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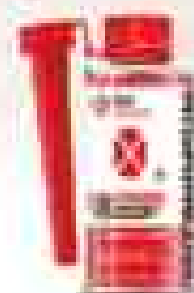


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 4. **Project Status:** [Project Status]

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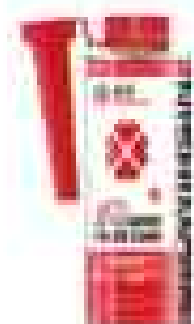
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1. Wipe the metal and the **joint** with clean, lint-free rags, and keep away from fire and heat sources.
2. Use up all the contents after opening.
3. Store out of reach of children.

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100%

From the example of one **beta** in **TRANSACTED** MANUFACTURING, see the next section reflecting it. The lead system will be thoroughly cleaned, kept, the tank is the injection, and continuous cleaning. It is designed for tanks with a capacity of up to 50 tons.

1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 2642, 2643, 2644, 2645, 2646, 2647, 2648, 2649, 2650, 2651, 2652, 2653, 2654, 2655, 2656, 2657, 2658, 2659, 2660, 2661, 2662, 2663, 2664, 2665, 2666, 2667, 2668, 2669, 2670, 2671, 2672, 2673, 2674, 2675, 2676, 2677, 2678, 2679, 2680, 26

