



JAPANLUBE



MARINE LUBRICANTS

MARINE OILS

2 STROKE 2T/PETROL

OUTBOARD

SENGAIKI 2T



2T NMMA TC WIII
SAE 10W-30

APPLICATIONS SUITABLE FOR SPECIFICATIONS: ENGAIKI 2T TCW3 is a Full synthetic 2-stroke snowmobile oil, a Premium full-synthetic base stock with special viscosity characteristics for optimum lubrication and performance East start-up in extreme cold temperatures .The only oil specifically formulated to meet requirements of Dual Stage Injection (DSI) 2-stroke engines.

Product meets & exceeds the requirement of

- NMMA TC-W3
- API TCW3
- JASO FC

Synthetic Technology

PACKAGING 1L | 4L | 20L | 208L

SENGAIKI 2T



2T NMMA TC WII
SAE 10W-30

APPLICATIONS SUITABLE FOR SPECIFICATIONS: SENGAIKI 2T TCW2 technologically advanced semi-synthetic base stock and additive 2-stroke engine oil provides all-season performance and greatly reduces visible smoke. Low deposits and reduced carbon and varnish deposit means longer engine life and greater performance over time. It provides exceptional lubrication in all temperatures, and a special additive maintains flow and prevents "gelling" in sub-zero conditions.

Product meets & exceeds the requirement of

- NMMA TC-W2
- API TCW2
- JASO FC

Synthetic Technology

PACKAGING 1L | 4L | 20L | 208L

SENGAIKI 2T



2T NMMA TC+
SAE 20

APPLICATIONS SUITABLE FOR SPECIFICATIONS: SENGAIKI 2T TC+ is a high-performance 2 stroke blend developed to stand up to high temperatures, rigorous demands and stress of competition engines. Special base stocks protect against wear and breakdown, low carbon deposits on pistons, rings and exhaust ports, reduces friction that allows for maximum horsepower.

Product meets & exceeds the requirement of

- NMMA TC+
- API TC+
- JASO FC

Mineral Technology

PACKAGING 1L | 4L | 20L | 208L





SENGAIKI OUTBOARD MOTOR

MARINE OILS

4 STROKE 4T/PETROL

OUTBOARD

SENGAIKI 4T



**4T SAE 5W-30
API SN**

APPLICATIONS SUITABLE FOR SPECIFICATIONS: SENGAIKI 4T 5W-30 API SN is our best full synthetic Outboard oil FC-W® rated by the National Marine Manufacturers Association (NMMA®). Contains all the benefits of SENGAIKI 4T, with increased lubricity for lower friction levels resulting in potentially improved fuel economy. Recommended primarily for all types of outboards engine. Also works well in other all types of inboard engines. 5W-30 weight provides excellent lubrication in all climates.

Product meets & exceeds the requirement of
OUTBOARD 4T (HIGH SPEED ENGINE) GASOLINE FC-W (CUMMINS CES-20078 ,
DETROIT DIESEL , DEUTZ DQC III-10 , MAN-3275-1 , MERCURY MARINE,MTU TYPE-2 ,
SELVA , SUZUKI MARINE , TOHATSU , YAMAHA)

Fully Synthetic

PACKAGING 1L | 4L | 20L | 208L

SENGAIKI 4T



**4T SAE 10W-30
API SN**

APPLICATIONS SUITABLE FOR SPECIFICATIONS: SENGAIKI 4T 10W- 40 API SN 4 Stroke Outboard Oil is a premium semi synthetic engine oil designed to meet the requirements of NMMA FC-W specification. Valvoline 4 Stroke Outboard 10W-40 Oil is formulated for both air and water-cooled 4 stroke outboard engines.

Product meets & exceeds the requirement of
OUTBOARD 4T (HIGH SPEED ENGINE) GASOLINE FC-W (CUMMINS CES-20078 , DETROIT DIESEL ,
DEUTZ DQC III-10 , MAN-3275-1 , MERCURY MARINE,MTU TYPE-2 , SELVA , SUZUKI MARINE , TOHATSU ,
YAMAHA)

Synthetic Technology

PACKAGING 1L | 4L | 20L | 208L

SENGAIKI 4T



**4T SAE 25W-40
API SL**

APPLICATIONS SUITABLE FOR SPECIFICATIONS: SENGAIKI 4T 25W-40 API SL Recommended for lubrication of the latest 4-stroke outboard and inboard motors (Mercury, Yamaha, etc.). These applications are commonly referred to as "inboard and inboard motors." It can also be used for 4-stroke outboard motors. Is a mineral-based 4-stroke outboard engine oil with NMMA approved for use in particularly harsh marine environments. Ratings that set minimum standards for outboard motor lubrication, corrosion protection, and resistance to the potentially harmful effects of fuel-induced oil dilution are important for outboard motor oil to meet minimum values. We provide a warranty.

Product meets & exceeds the requirement of
OUTBOARD 4T (HIGH SPEED ENGINE) GASOLINE FC-W (CUMMINS CES-20078 , DETROIT DIESEL , DEUTZ
DQC III-10 , MAN-3275-1 , MERCURY MARINE,MTU TYPE-2 , SELVA , SUZUKI MARINE , TOHATSU , YAMAHA)

Mineral Technology

PACKAGING 1L | 4L | 20L | 208L





日本石油
JAPANLUBE

BOTO

PLEASURE INBOARD



MARINE OILS

INBOARD

BOTO



API CI-4/SL SAE 5W-30

APPLICATIONS SUITABLE FOR SPECIFICATIONS: BOTO 4T 5W-30 Full synthetic four stroke oil is for use in all four stroke outboard, stern drive and inboard marine engines. SAE 5W30 weight oil provides outstanding wear and corrosion protection to help extend engine life. It maintains its viscosity, protects against varnish buildup and sludge formation and exceeds the rust protection requirements for NMMA certification.

Product meets & exceeds the requirement of

- API CI-4/SL • ACEA A3/B3/B4/E7-16 • Caterpillar ECF-1a/ECF-2 • Cummins CES 20076/77/78
- Deutz DQC III-10 • Detroit Diesel DDC 93K215 • MAN M3275-1 • Volvo VDS 3 • MTU Type 2

Fully Synthetic

PACKAGING 1L | 5L | 20L | 208L

BOTO



API CI-4/SL SAE 10W-30

APPLICATIONS SUITABLE FOR SPECIFICATIONS: BOTO 4T 10W-40 High-performance low-friction motor oil based on synthetic technology with modern additive technology. Specially developed for maritime use. Provides excellent wear and corrosion protection and maximum engine cleanliness. Meets leading engine manufacturers' requirements. Tested for use with catalytic converters and turbochargers.

Product meets & exceeds the requirement of

- Cummins CES 20075, 20072, 20071 • API CH-4 • JASO DH-1 • Detroit Diesel DDC Power Guard 93K214
- Mack EO-M • MAN M 3275-1 • Deutz DQC III-10 • Detroit Diesel DDC 93K215

Synthetic Technology

PACKAGING 1L | 5L | 20L | 208L

BOTO



API CH-4/SL SAE 15W-40

APPLICATIONS SUITABLE FOR SPECIFICATIONS: BOTO 250 15W-40 High-performance motor oil based on selected base oils and modern additive technology, developed specially for the maritime requirements. Even in extreme conditions guarantees optimum lubrication and reliable protection against wear. Tested for use with catalytic converters and turbochargers.

Product meets & exceeds the requirement of

- Cummins CES 20071 • MB-Approval 228.1 • MAN 271 • API CF-4 • ACEA E2 • MAN M 3275-1V

Mineral Technology

PACKAGING 1L | 5L | 20L | 208L



MARINE OILS

MEDIUM SPEED

INBOARD

FUNNE



API CF-4 SAE 10W-40

APPLICATIONS SUITABLE FOR SPECIFICATIONS: **Funne 10W/40** is a low friction engine oil for the use in marine diesel engines. excellent detergent and dispersant characteristics, low evaporation, high aging stability, protection of reflecting surface formation, very good cold start characteristics, reduces oil and fuel consumption.

Specifications and Approvals:

- MAN ES (MAN B&W) • YANMAR • Rolls-Royce • Wärtsilä • Daihatsu • MAK (Caterpillar) • API CF-4

Synthetic Technology

PACKAGING 1L | 5L | 20L | 208L

FUNNE



API CH-4 SAE 10W-50

APPLICATIONS SUITABLE FOR SPECIFICATIONS: **Funne 10W/50** is synthetic extra high performance diesel engine oil engineered to provide outstanding lubrication to modern, high performance diesel engines used in marine applications. This diesel engine oil is designed using high performance base oils which provide excellent low temperature fluidity, high temperature viscosity retention, volatility control and fuel economy improvement. Funne 10W-50 is engineered to provide long oil drain intervals in modern diesel engines.

Specifications and Approvals:

- MAN ES (MAN B&W) • YANMAR • Rolls-Royce • Wärtsilä • Daihatsu • MAK (Caterpillar) • API CH-4

Synthetic Technology

PACKAGING 1L | 5L | 20L | 208L

FUNNE



API CF SAE 50

APPLICATIONS SUITABLE FOR SPECIFICATIONS: **Funne SAE 50** Metallic detergent and ashless dispersant additive system provides both high temperature deposit control in diesel engines and low temperature sludge control in gasoline engines. High oxidation stability protects against the formation of gums and varnish at elevated temperatures, and resists thickening, and oil line and filter plugging. Protects against wear of critically loaded components under all operating conditions. Multigrade viscosity provides additional protection against wear at start-up and under high temperature operating conditions.

Specifications and Approvals:

- MAN ES (MAN B&W) • YANMAR • Rolls-Royce • Wärtsilä • Daihatsu • MAK (Caterpillar) • API CF

Mineral Technology

PACKAGING 1L | 5L | 20L | 208L

FUNNE



API CF SAE 40

APPLICATIONS SUITABLE FOR SPECIFICATIONS: **Funne SAE 40** is recommended for marine medium speed, help anti-wear additive system resists wear by forming a protective layer on contact surfaces under all service conditions. Metallic detergent and ashless dispersant additive system preserves power and performance by providing very good control of high-temperature piston and ring deposits. Level of alkaline reserve ensures that **corrosive acids formed by the combustion of fuel sulfur are neutralized without the need for overly shortened oil drain intervals.**

Specifications and Approvals:

- MAN ES (MAN B&W) • YANMAR • Rolls-Royce • Wärtsilä • Daihatsu • MAK (Caterpillar) • API CF

Mineral Technology

PACKAGING 1L | 5L | 20L | 208L



MARINE 400



APPLICATIONS SUITABLE FOR SPECIFICATIONS: Marine 400 10W/40 is a Fully synthetic, high-performance low-friction diesel marine oil with the latest additive technology. Ensures outstanding wear protection and engine cleanliness. Optimum protection of engine components due to the high content of corrosion protection additives. Specially developed for the maritime sector. Meets leading engine manufacturers' requirements. Tested for use with catalytic converters and turbochargers.

Product meets & exceeds the requirement of

- API CI-4/SL • ACEA A3/B3/B4/E7-16 • Caterpillar ECF-1a/ECF-2 • Cummins CES 20076/77/78
- Deutz DQC III-10 • Detroit Diesel DDC 93K215 • MAN M3275-1 • Volvo VDS 3 • MTU Type 2

API CI - 4 10W-40

Synthetic Technology

PACKAGING 20L | 208L

MARINE 300



APPLICATIONS SUITABLE FOR SPECIFICATIONS: Marine 300 15W/40 is a high performance diesel engine oils that provide reliable protection of diesel engines operating in marine severe service applications. Designed to provide reliable engine protection in the most severe service marine applications of both modern marine diesel engines as well as older models in marine industry such as inland, coastal, dredging, fishing, passenger, offshore service and others

Product meets & exceeds the requirement of

- Cummins CES 20075, 20072, 20071 • API CH-4 • JASO DH-1 • Detroit Diesel DDC Power Guard 93K214
- Mack EO-M • MAN M 3275-1 • Deutz DQC III-10 • Detroit Diesel DDC 93K215

API CH - 4 15W-40

Mineral Technology

PACKAGING 20L | 208L

MARINE 250



APPLICATIONS SUITABLE FOR SPECIFICATIONS: Marine 250 15W/40 is a premium diesel oil that provides excellent performance in all types of diesel marine engines where highly effective control of wear and deposits is vital. Engineered with heavy-duty dispersant/detergent additives, its Total Base Number (TBN) of 12 neutralizes acids and controls soot thickening from exhaust gas recirculation (EGR) and blow-by to protect against corrosion, cylinder bore polishing (wear), varnish and sludge deposits.

Product meets & exceeds the requirement of

- Cummins CES 20071 • MB-Approval 228.1 • MAN 271 • API CF-4 • ACEA E2 • MAN M 3275-1V

API CH - 4 15W-40

Mineral Technology

PACKAGING 20L | 208L

MARINE 200



APPLICATIONS SUITABLE FOR SPECIFICATIONS: Marina 200 SAE 40 is recommended for –

- Turbocharged main and auxiliary engines of all types and all ratings running on Marine Diesel Oil (ISO 8217 DMX, DMA, DMB, DMC) or on Intermediate Fuel Oil.
- Turbocharged main and auxiliary engines of all types and of all ratings running on Gas Oil when a substantial safety margin is required.
- Bearings and stern-tubes.
- Reduction gear lubrication.

Product meets & exceeds the requirement of

- MAN ES (MAN B&W) • YANMAR • Rolls-Royce • Wärtsilä • Daihatsu • MAK (Caterpillar) • API CF

API CF SAE 40

Mineral Technology

PACKAGING 20L | 208L

MARINE 200



APPLICATIONS SUITABLE FOR SPECIFICATIONS: Marina 200 SAE 50 is High quality marine diesel engine oils, formulated from highly refined mineral base oils. Recommended for the lubrication of medium and high speed marine diesel engines. Also suitable for use in stationary engines, gear transmissions, port machinery, etc.

Product meets & exceeds the requirement of

- MAN ES (MAN B&W) • YANMAR • Rolls-Royce • Wärtsilä • Daihatsu • MAK (Caterpillar) • API CF

API CF SAE 50

Mineral Technology

PACKAGING 20L | 208L

MARINE OILS

LOW SPEED

INBOARD

SHIRINDA 100



API CF
SAE 50 TBN 100

APPLICATIONS SUITABLE FOR SPECIFICATIONS: SHIRINDA SAE50 TBN100 is recommended for Slow speed 2-stroke engines using high sulfur residual fuels. Engines with a specifically corrosive nature that demand a higher level of neutralization. efficiently neutralize sulfuric acid formed during combustion of high sulfur residual fuels. Suitable for use in on-board mixing systems when used in conjunction has high acid neutralization capacity, ensuring excellent cylinder protection. Its high BN created with mineral chemistry maintains cylinder protection over long periods of high sulfur residual fuel usage, preventing corrosion resulting from sulfuric acid formation. Prevents cylinder wear and scuffing, and can extend the length of time between engine overhauls.

Product meets & exceeds the requirement of
• MAN ES (MAN B&W) • WinGD (Wärtsilä) • WinGD DF Validated • Japan Engine Corporation (UE Engines)

Mineral Technology

PACKAGING 20L | 208L

SHIRINDA 80



API CF
SAE 50 TBN 80

APPLICATIONS SUITABLE FOR SPECIFICATIONS: The SHIRINDA SAE50 TBN80 is recommended for all low speed 2-stroke engines operating on high sulfur residual fuel. Suitable for ships with an exhaust gas aftertreatment system. Based on pioneering chemistry, it has a high BN of 80 and its highly capable neutralization of reducing acids. Neutralizes sulfuric acid and prevents low temperature corrosion of modern 2-stroke engines. When using high sulfur heavy fuel oil (HSHFO), it efficiently maintains the cleanliness of the cylinder and prevents damage to the engine. Especially suitable for long hours of intense engine operation.

Product meets & exceeds the requirement of
• MAN ES (MAN B&W) • WinGD (Wärtsilä) • WinGD DF Validated • Japan Engine Corporation (UE Engines)

Mineral Technology

PACKAGING 20L | 208L

SHIRINDA 70



API CF
SAE 50 TBN 70

APPLICATIONS SUITABLE FOR SPECIFICATIONS: SHIRINDA SAE50 TBN70 is recommended for All 2-stroke engines, running on high sulfur residual fuels. Can be used alternately with lower BN products when using IMO 2020 compliant fuels. SHIRINDA SAE50 TBN70 has been designed to lubricate slow speed 2-stroke engines using residual fuels. Using conventional calcium carbonate chemistry, it efficiently neutralises sulfuric acid formed during combustion of high sulfur residual fuels. has high acid neutralisation capacity, ensuring excellent cylinder protection. Its high BN protect over long periods, from corrosion which help to maintain engine cleanliness. Reduces cylinder wear and scuffing, and can extend the length of time between engine overhauls.

Product meets & exceeds the requirement of
• MAN M271 • VOLVO VDS • MACK EO-K • API CF • Japan Engine Corporation (UE Engines)

Mineral Technology

PACKAGING 20L | 208L

SHIRINDA 40



API CF
SAE 50 TBN 40

APPLICATIONS SUITABLE FOR SPECIFICATIONS: SHIRINDA 40 SAE 40 TBN 40 is recommended for all 2-stroke engines running on low sulfur IMO 2020 compliant fuels. Suitable for all IMO 2020 and ECA compliant fuels. SHIRINDA 40 SAE 40 TBN 40 is a marine cylinder lubricant which has been designed specifically for slow speed 2-stroke engines using low sulfur residual fuels. SHIRINDA 40 SAE 40 TBN 40 maintains engine cylinder cleanliness and minimises deposit build-up on piston crowns, rings and liners. With its low BN and its conventional calcium carbonate chemistry, it is optimised to efficiently lubricate engines using IMO 2020 compliant fuels.

Product meets & exceeds the requirement of
• MAN M271 • VOLVO VDS • MACK EO-K • API CF • Japan Engine Corporation (UE Engines)

Mineral Technology

PACKAGING 20L | 208L

SHIRINDA 25



API CF
SAE 50 TBN 25

APPLICATIONS SUITABLE FOR SPECIFICATIONS: SHIRINDA 50 SAE 25 is recommended for All 2-stroke engines, including the latest generation of crosshead engines, running on ultra low sulfur ECA compliant fuels. SHIRINDA 50 SAE 25 is a highly reliable low alkaline lubricant specifically designed for slow speed 2-stroke engines running on distillate fuels. Specially formulated to ensure reliable operations with ECA compliant ultra low sulfur fuels & protected against deposit formation which can lead to scuffing issues, deposit control with up to 0.1% sulfur content.

Product meets & exceeds the requirement of
• Japan Engine Corporation (UE Engines) • WinGD (Wärtsilä)

Mineral Technology

PACKAGING 20L | 208L



MARINE OILS

INBOARD

YUATSU 100



APPLICATIONS SUITABLE FOR SPECIFICATIONS: YUATSU 100 range have been especially developed in order to satisfy the wide variations in temperature encountered with modern hydraulic systems YUATSU 100 are particularly recommended for all high pressure and high speed, vane, piston and gear type hydraulic pumps, and for use in all hydraulic equipments operating in extreme temperature conditions, including: Remote control systems, Hydraulic deck machinery and Steering gears

Product meets & exceeds the requirement of

- ISO 11158 (HV fluid) • ASTM 6158-05(HV fluids) • Denison Hydraulics (HF-0, HF-1, HF-2)
- Five Cincinnati P-68, P-69, P-70) • DIN 51524 Part 3 HVLP Type

HVLP 100

Mineral Technology

PACKAGING 20L | 208L

YUATSU 68



APPLICATIONS SUITABLE FOR SPECIFICATIONS: YUATSU 68 These oils meet the specifications of the world's leading hydraulic equipment manufacturers NF E 48603 class HV, DIN 51 524 part 3 class HVLP, ISO 6743/4 class HV.+ , with very high viscosity index and excellent anti-wear properties. Excellent stability against shearing, Low pour point, Very high resistance to oxidation, Excellent anti-corrosion and anti-rust properties, Excellent water and air release properties, High resistance to foaming, Compatibility with all seals, Excellent resistance to hydrolysis, Excellent filtrability under severe applications.

Product meets & exceeds the requirement of

- ISO 11158 (HV fluid) • ASTM 6158-05(HV fluids) • Denison Hydraulics (HF-0, HF-1, HF-2)
- Five Cincinnati P-68, P-69, P-70) • DIN 51524 Part 3 HVLP Type

HVLP 68

Mineral Technology

PACKAGING 20L | 208L





TABIN



ISO 32
Mineral Technology



ISO 46
Mineral Technology



ISO 68
Mineral Technology

APPLICATIONS SUITABLE FOR SPECIFICATIONS:

TABIN is recommended for –

- Bearings and reduction gears of propulsion and auxiliary turbines (turbogenerators, turbopumps, etc...)
- Shaft bearings and stern tubes
- Turbocharger bearings
- Certain hydraulic systems
- Machine-tool lubrication
- Air compressor lubrication
- General lubrication

Product meets & exceeds the requirement of

• ISO 11158 • ASTM 6158-05 • Denison Hydraulics (HF-0, HF-1, HF-2) • Five Cincinnati P-68, P-69, P-70) • DIN 51524 Part 3

PACKAGING | 20L | 208L





MARINE OILS

INBOARD

GIYA



API GL - 5 SAE 80W-90

APPLICATIONS SUITABLE FOR SPECIFICATIONS: GIYA 80W90 is a high performance limited slip hypoid gear oil for highly stressed normal and limited slip differentials, formulated with high quality base stocks and EP additive system to reduce friction and operating temperature in limited slip applications. It can be used for marine applications.

Product meets & exceeds the requirement of

- MB 235.6 • MAN 342 Type M2 • ZF TE-ML:07A, 16C, 17B, 19B, 21A • US Military MIL-L-2105D • API GL-5

Mineral Technology

PACKAGING 1L | 4L | 20L | 208L

GIYA



API GL - 4 SAE 80W-90

APPLICATIONS SUITABLE FOR SPECIFICATIONS: GIYA 80W90 is a High-performance gear oil based on selected base oils and with specially formulated additives for manual shift transmissions. Minimizes wear and noise. Outstanding corrosion protection and resistance to aging. Meets the requirements for API GL4 performance categories and corresponds to SAE 80W-90 viscosity grade.

Product meets & exceeds the requirement of

- MB 235.6 • MAN 342 Type M2 • ZF TE-ML:07A, 16C, 17B, 19B, 21A • US Military MIL-L-2105D • API GL-5

Mineral Technology

PACKAGING 1L | 4L | 20L | 208L

GIYA



API GL - 5 SAE 85W-140

APPLICATIONS SUITABLE FOR SPECIFICATIONS: GIYA 85W140 is a Mineral low-viscosity hypoid gear oil. For vehicles with tried and tested transmission technology. Even under the most difficult conditions and during large temperature fluctuations, it ensures flawless aggregate functioning. Greatest lubrication security, maximum wear protection through large viscosity bandwidth. Outstanding viscosity temperature behavior. Reduces transmission noise.

Product meets & exceeds the requirement of

- Cummins CES 20071 • MB-Approval 228.1 • MAN 271 • API CF-4 • ACEA E2 • MAN M 3275-1V

Mineral Technology

PACKAGING 1L | 4L | 20L | 208L

GIYA



API GL - 4 SAE 85W-140

APPLICATIONS SUITABLE FOR SPECIFICATIONS: GIYA 85W-140 is a high performance oil developed for axles, highly loaded gears and hypoid axles with double or single reduction requiring API GL-4 (gear boxes, axles, transfer boxes).

It is particularly adapted for the lubrication manual transmission with drain interval based on OEM recommendations.

Product meets & exceeds the requirement of

- Cummins CES 20071 • MB-Approval 228.1 • MAN 271 • API CF-4 • ACEA E2 • MAN M 3275-1V

Mineral Technology

PACKAGING 1L | 4L | 20L | 208L



APPLICATIONS SUITABLE FOR SPECIFICATIONS: Kuranto coolant is available in 33, 60 & 100% concentration form. It is formulated with de-ionized water and proper treat level of mono- ethylene glycol suitable for light duty and heavy duty applications. Its also can be use in construction and earth moving equipment.

PACKAGING 1L | 4L | 20L | 208L





日本石油
JAPANLUBE



Manufacture & Franchised by:



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H O L D I N G

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