

Four-Stroke Motorcycle Engine Oil

Challenger Synthetic 4T

SAE 5W-40
API SL
JASO MA



Available package size : 1L

Performance standards :
API SL, JASO MA

Benefits :

An outstanding performance fully synthetic 4-stroke engine oil with the latest standards, for 4-stroke motorcycle, API SL and JASO MA for today's motorcyclists seeking top power output. Challenger Synthetic 4T will reach you to the unlimited drivability whereas clutch-slipping protection is concerned. It is developed to provide especially engine's part cleanliness, easily gear shifting and gear pitting protection. Where exceptional wear protection even under extreme conditions, fuel economy improvement 3-8 percents and extend oil drain interval up to 6,000 kilometers.

Application :

Challenger Synthetic 4T is recommended for all modern technology and new model of 4-stroke motorcycle engines, imported big bike and including for motorcyclists who care for their motorcycles and like to enjoy maximum performance and power from their motorcycles. Due to the international standards approval, it is recommended for all makes of American, Japanese, European and including in-house manufacturers for examples, BMW, Harley-Davidson, Honda and Yamaha. And ensures to use for 2-stroke gear oil.

Challenger 4T

SAE 10W-40
API SG
JASO MA



Available package size : 1L

Performance standards :
API SG, JASO MA

Benefits :

High performance, super premium quality for 4-stroke engine oil with the synthetic technology and JASO MA approval with high quality of additives. Challenger 4T is especially formulated for high performance 4T motorcycles, that contains a special lubricating properties, clutch slipping protection, maximizes power output. Moreover, it is developed to provide especially engine's part cleanliness, gear pitting protection. Where exceptional wear protection and extend oil drain interval are concerned.

Application :

Challenger 4T is particularly designed for new model of high performance 4-stroke motorcycle engines, imported big bike and including for motorcyclists who care for their motorcycles and like to enjoy maximum of engine's performance. It is recommended for all makes of American, Japanese, European and in-house manufacturers for examples, BMW, Harley-Davidson, Honda and Yamaha. And ensures to use for 2-stroke gear oil.

Hi-Speed 4T

SAE 20W-50
API SG
JASO MA



Available package size : 1L, 60L

Performance standards :
API SG, JASO MA

Benefits :

Premium quality of 4-stroke engine oil with JASO MA approval and high technology developed formulation, Hi-Speed 4T is especially formulated for high performance 4T motorcycles. Not only the excellent engine's part cleanliness, wear protection, prolong engine's life, Hi-Speed 4T also protects the clutch from slipping follow by the international standard JASO MA. Resulting in excellent drivability, trouble free running and maintain power output.

Application :

Hi-Speed 4T is recommended for all conventional type 4-stroke motorcycle; family, moped and sport type that makes by American, Japanese, European for examples, Honda, Yamaha, Suzuki, Kawasaki and including in-house manufacturers. Ensures to use for 2-stroke gear oil.

Max Speed 4T

SAE 40
API SF



Available package size : 1L

Performance standard :
API SF

Benefits :

A Monograde 4T motorcycle engine oil exceeds API SF standard, formulated from high quality base stock and additives. Max-Speed 4T provides special lubricating properties, engine's part and gear wear protection, deposit control and extends engine's life.

Application :

Max-Speed 4T is suitable for all conventional type of 4T motorcycles; family, moped such as, Honda, Yamaha, Suzuki, Kawasaki and including in-house manufacturers. Ensures to use for 2-stroke gear oil.

Two-Stroke Motorcycle Engine Oil

Challenger Synthetic 2T

ISO EGD, JASO FD, API TC
TIS 1040-1998



Available package size : 1L

Performance standards :
ISO EGD, JASO FD, API TC, TIS 1040-1998

Benefits :

The technically advanced fully synthetic 2-stroke engine oil with the latest standards ISO EGD, JASO FD and API TC. With the best quality of additives, Challenger Synthetic 2T cleans engines of piston deposits and returns the maximum power output whereas low smoke formulation that ensures reduced visible emissions and engine's wear protection are concerned. It will reach you to the unrivaled performance and engine refreshment.

Application :

Challenger Synthetic 2T is recommended for all modern technology and new model of 2-stroke motorcycles, imported big bike and including for motorcyclists who care for their motorcycles and love to enjoy the adventure. It is recommended for all makes of American, Japanese and European 2T motorcycles for examples Honda, Yamaha and Cagiva.

Challenger 2T

ISO EGD, JASO FD, API TC
TIS 1040-1998



Available package size : 1L

Performance standards :
ISO EGD, JASO FD, API TC, TIS 1040-1998

Benefits :

High performance, super premium quality of 2-stroke engine oil with the synthetic technology, ISO EGD and JASO FD approval. With high quality of additives, Challenger 2T is especially formulated for high performance 2T motorcycles, that contains a super detergent additive, exceptional engine's part cleanliness, scuffing and piston seizure prevention even in extremely high speed are provided.

Application :

Challenger 2T is recommended for new sport model, high performance of 2-stroke motorcycle engines, imported big bike and including for motorcyclists who like to enjoy maximum performance and power from their motorcycle. It is recommended for all makes of American, Japanese and European motorcycle.

Hi-Speed 2T

JASO FC, API TC
TIS 1040-1998



Available package size : 1L

Performance standards :
JASO FC, API TC, TIS 1040-1998

Benefits :

A premium quality 2-stroke engine oil which exceeds JASO FC specification to provide extra low smoke, anti-scuffing and piston seizure prevention. Hi-Speed 2T helps keep the combustion chamber and engine's parts clean to ensure trouble free running, minimizes engine's part wear, exhaust port blocking and spark plug fouling prevention. Hi-Speed 2T is a controlled smoke formulation that reduces visible emissions.

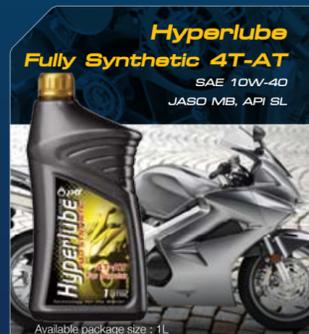
Application :

Hi-Speed 2T is recommended for all model of small and medium size 2T motorcycles; family, moped, sport and scooter or riders who care about the reliability of their motorcycle 2-stroke utility engines such as water pump engines and portable generators can be applied.

Automatic Transmission Motorcycle Oil

Hyperlube Fully Synthetic 4T-AT

SAE 10W-40
JASO MB, API SL



Available package size : 1L

Performance standards :
JASO MB, API SL

Benefits :

The ultimate performance for high technology scooter which is especially formulated from fully synthetic base oil and high quality additive to maximize power output, oil thermal stability, and to maintain engine's part cleanliness. It is also developed to provide excellent wear protection, excellent drivability, trouble free running and fuel economy. Additionally, Hyperlube Fully Synthetic can maximize oil drain interval compare to conventional oil.

Application :

Hyperlube Fully Synthetic is recommended for high performance or new model of automatic transmission motorcycles, and all makes of American, European and Japanese motorcycles.

Hyperlube Semi-Synthetic 4T-AT

SAE 10W-40
JASO MB, API SL



Available package size : 1L

Performance standards :
JASO MB, API SL

Benefits :

The high performance semi-synthetic engine oil for automatic motorcycles. Hyperlube Semi-Synthetic is especially formulated to maximize oil thermal stability, maintain engine's part cleanliness and return high power output. It is developed to provide smoothly drivability, special lubricating property and excellent wear protection.

Application :

Hyperlube Semi-Synthetic is particularly designed for all models of automatic motorcycles, and all makes of American, European and Japanese motorcycles.

Hyperlube 4T-AT

SAE 20W-50
JASO MB, API SG



Available package size : 1L

Performance standards :
JASO MB, API SG

Benefits :

Hyperlube 4T-AT for scooter is formulated to provide engine's part cleanliness, smooth drivability. It is developed to provide excellent wear protection; and trouble free running.

Application :

Hyperlube 4T-AT for scooter is particularly designed for all models of automatic motorcycles, and all makes of European and Japanese scooters. Additionally, old model scooters which need more top up oil are recommended to use this viscosity grade.



PTT is Thailand's national energy company. It is fully integrated in every area of the petroleum and petrochemical value chain. PTT is the largest manufacturer and distributor of petroleum products in Thailand, ranking as 135th top performing company by Fortune Global Magazine in 2008 and 354th in the Forbes Global 2000 leading public companies. We are the market leader in fuel products and LPG for long consecutive year occurs through commercial, retail and international trading network. Including lubricant business, PTT had increased its market share and become the strongest in the growth market. This rapid growth is conducted by the intension of our executives and our teams. Proven by 1.6 billion baht that invented for R&D institute, intended strategic partnership with four of the world's leading additive companies and particularly, owning base oil refinery and blending plant. In terms of technology, we are the first player for 2-stroke low-smoke formulation lubricant with the latest technology to combine PIB (Polyisobutene) in the formulation resulting in engine cleanliness and exhaust port blocking protection. For 4-stroke motorcycle lubricant, we have continuously improved the formulation because we realizes not only the engine that need to be protected but also clutch and gear are concerned.

With all of these facilities, our teams which combine the specialists for each field including sales, public relation and advertising, marketing, logistics system, and technical service team are ready to serve the best services for our valued customers in the name of

"PTT Lubricants".



Bring The **Best Performance**
For Your Motorcycles



4T
Four - Stroke
Engine

Normally four stroke motorcycle and gasoline passenger car lubricants are certified by API (American Petroleum Institute) but for motorcycle, not only engine that need to be protected but also clutch and gear are concerned. Unfortunately, the newly developed standards of API can caused the problem of clutch-slipping then conventional 4T lubricants are formulated to meet only API SE or API SF standards, and API SG for nowadays. In the new generation of our technology, we can come up with the latest standard API SL which is the highest level for 4T motorcycles. This technology can bring the best performance and drivability for your motorcycles whereas clutch and gear are protected, proven by JASO MA approval from Japan Automobile Standards Organization for 4-stroke motorcycle lubricant. To obtain the MA standard, oil must meet the most severe requirements in terms of lubrication, taking into account the specificity of motorcycle or generally the oil bath clutch (test of anti-slip and friction).

The Latest
Performance
Standards of
Motorcycle
Engine

2T
Two - Stroke
Engine

API TC : The highest level of 2-stroke motorcycle engine oil of API standard (American Petroleum Institute).
JASO FD: The latest standard category from JASO for 2-stroke motorcycle lubricant that defined extra high level of detergency and piston varnish prevention requirements.
ISO EGD: The highest level of international standard for 2-stroke motorcycle lubricant that has been modified from JASO standard.
TIS 1040-1991: TIS (Thai Industrial Standards Institute) category year 1991 applies to oils being marketed and used in Thailand and other Asian countries which concern oil performance with respect to detergency, lubricity and smoke.
TIS 1040-1998: TISI category year 1998 that requires higher level of detergency and lower smoke than TIS 1040-1991