

# CHALLENGER 4T

SAE 10W-30 / 10W-40 / 15W-40

## Product Description

CHALLENGER 4T is synthetic technology 4-stroke motorcycle oil formulated to improve engine performance for all models of modern bikes. It has excellent engine cleanliness and optimizes friction control for smooth gear shifting.

## Benefits

- Offers excellent engine cleanliness controlling of ring and piston deposit.
- Provides superior engine / gear lubrication and wear protection.
- Optimizes friction control for smooth gear shifting.
- Extends engine life and drain interval.
- Improves acceleration response and fuel economy. (SAE 10W-30)
- Delivers engine performance and horsepower. (SAE 10W-40)
- Offers superior film strength for engine protection under high rpm. (SAE 15W-50)

## Applications

- Designed for high performance air and water-cooled of 4-stroke motorcycles.
- Recommended for both fuel injection and carburetor technology.
- Suitable for gearboxes in 2-stroke motorcycles.
- **NOTE:** Choosing viscosity grade following by the manufacturer's recommendations, recommended viscosity grade SAE 15W-50 for high speed driving such as big bikes and choppers.

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## Typical Characteristics

Tests	Methods	Units	Results		
			10W-30	10W-40	15W-50
Density at 15 °C	ASTM D 4052	g/cm <sup>3</sup>	0.862	0.864	0.869
Kinematic Viscosity at 40 °C	ASTM D 445	mm <sup>2</sup> /s	64.9	99.1	140.3
Kinematic Viscosity at 100 °C	ASTM D 445	mm <sup>2</sup> /s	10.0	14.3	18.8
Viscosity Index	ASTM D 2270		140	149	149
Cold-cranking Simulator at -25 °C	ASTM D 5293	mPa.s	5,540	6,640	-
Cold-cranking Simulator at -20 °C	ASTM D 5293	mPa.s	-	-	6,430
Flash Point (COC)	ASTM D 92	°C	232	238	250
Pour Point	ASTM D 5950	°C	-36	-33	-27

## Performance Standards

- JASO MA2
- API SL

## Health and Safety

This product shows no significant health or safety hazard when used under the recommended applications and suitable handling.

Avoid the direct contact. Wash immediately after contact. Health and safety information is available on the Safety Data Sheet (SDS) which can be obtained from <http://pttlubricants.pttor.com>

**PTT LUBE SOLUTIONS** Professional Lubricant Service Partner



The product can cause some skin irritation and has flash point higher than 93.4°C

Note: Data and information contained in this publication are based on standard test under laboratory conditions and/or performance test. To consider the use of PTTOR Lubricants' products in particular application, customer is responsible for determining whether product and information are appropriate for customer conditions or should consult with PTTOR Lubricants' technical service division. The procedure of using any lubricant may differ or change depended on different machines and their manuals. Therefore, we recommend to read, understand and review the latest SDS in order to ensure the use of product is accomplished safety.

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