

RACING SPEC PRO-4T

The Racing Oil Grasping a Rider's Soul

RACING SPEC PRO - 4T is a 4 - cycle engine oil designed and developed to win the race. It is 10W-50 multi-grade oil with carefully selected synthetic oils and well balanced additives such as antioxidant, detergent, anti-wear agent and friction reducing agent. For many years, **RACING SPEC PRO-4T** supports high-output characteristics and engine durability of racing vehicles that are most necessary in real races including Suzuka 8 hours endurance road race. In addition, **Racing SPEC PRO 4T** has received high praise from riders as a gear oil of a two-cycle engine motorcycle.

● Special Features

(1) Excellent low friction performance

RACING SPEC PRO-4T exhibits an extremely low friction coefficient over the range of 40°C to 120°C in the SRV test (friction test conditions:400 N, 50 Hz, 1.5 mm) (Figure 1). This low friction performance contributes to better output of the engine. Selection of organomolybdenum and ashless friction modifier blended as a friction reducing agent enabled low friction at a wide range of oil temperature.

In addition, the selection and compounding technologies of various ester synthetic oils have contributed to the lubricity of gears in the transmission, and reduction in friction loss in the transmission has lead to an improvement in engine output.

(2) Excellent anti-wear performance of valve train

Low friction oil may cause abnormal wear such as pitching and scuffing on the friction surface of camshaft or rocker arm pad (or tappet). For this reason, anti-wear performance of **RACING SPEC PRO-4T** was confirmed in the valve train wear test (Fig. 2).

RACING SPEC PRO-4T did not cause abnormal wear at all compared with other race oils. This is also due to additive technology including selection of anti-wear agents.

(3) Excellent engine cleanliness

RACING SPEC PRO-4T exhibits extremely high engine cleanliness, as it has selected synthetic oils, anti-wear agents, antioxidants, metallic detergents and ashless dispersants with excellent thermal stability.

(4) Rider's voice at the race

- Output improved by 2 to 3%
- Response is good
- The combustion chamber is clean
- Mission touch is good

● Applications

- (1) 4-cycle engine dedicated to racing
- (2) Transmission gear of two-cycle engine motorcycle.

● Containers

4 L can (6 pieces), 1 L can (20 pieces)

● Typical Properties of RACING SPEC PRO-4T

SAE viscosity grade			10W-50
Color			L2.5
Density	(15°C)	g/cm ³	0.909
Flash point	(COC)	°C	230
Pour point		°C	-50
Kinematic viscosity	(40°C)	mm ² /s	104.2
	(100°C)	mm ² /s	18.09
Viscosity index			193
CCS viscosity	(-25°C)	mPa·s	5400
Acid number			mgKOH/g 2.84
Base number(D664)			mgKOH/g 5.95
Base number(D2896)			mgKOH/g 8.26
Sulfated ash			mass% 0.79
Element	Zn	mass%	0.12
	P	mass%	0.11
	Ca		0.16
	Mo		0.05
	N		0.14

Note: The typical properties may be changed without notice.
(Oct. 2017)

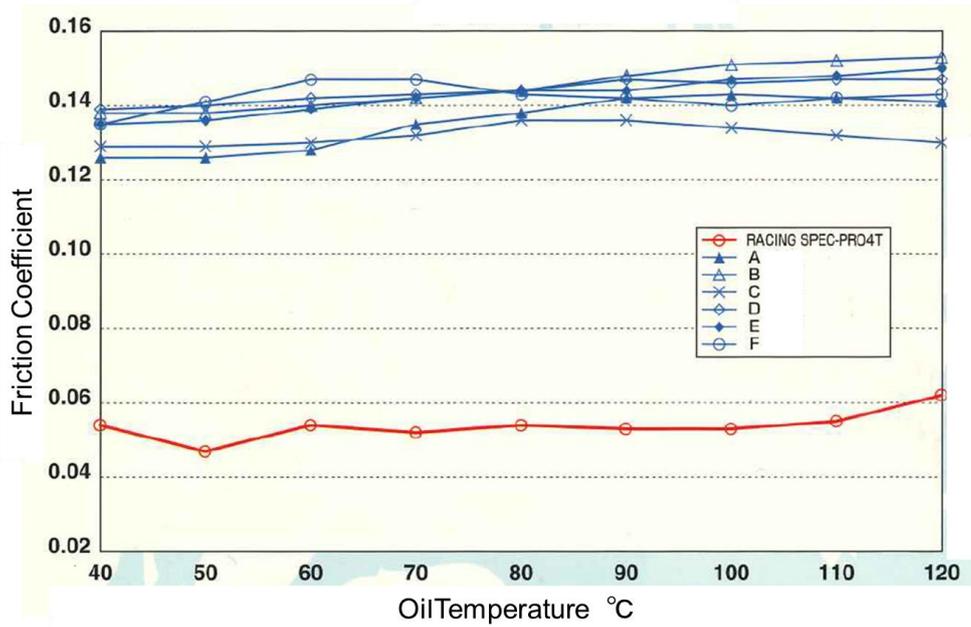


Fig.1 Comparison of friction characteristics of racing oil by SRV test

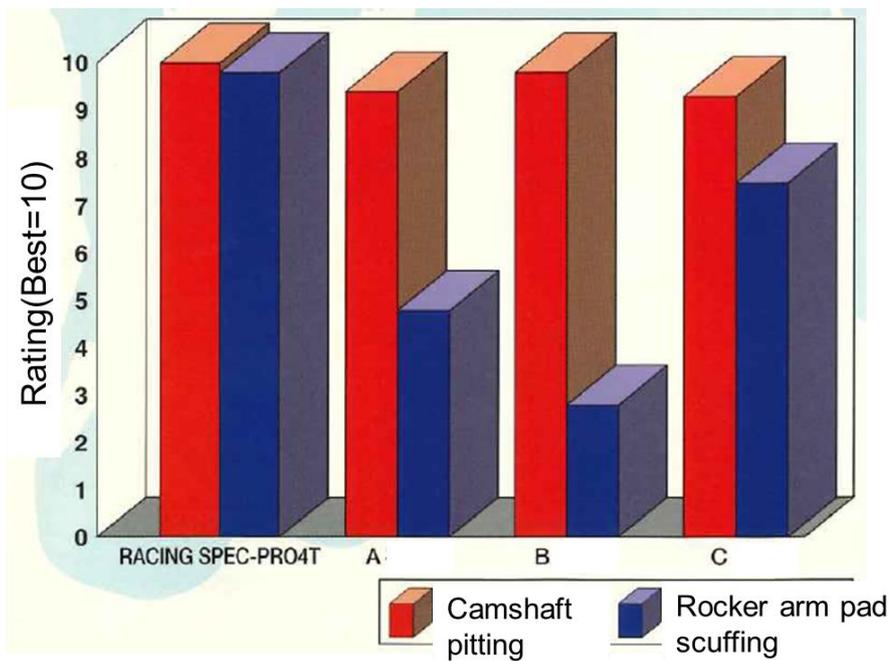


Fig.2 Comparison of anti-wear performance of racing oil by valve train wear test



Handling Precautions

▼ Follow these precautions when handling this product.

Composition :	Base Oil, Additives
Precautionary pictograms:	Not applicable
Signal word:	Not applicable
Hazard Statement:	Not applicable
Precautionary Statements:	<ul style="list-style-type: none">• Do not handle until all safety precautions have been read and understood.• Wear protective gloves/protective clothing/eye protection/face protection.• Do not allow the eyes to become exposed to the product. Do not swallow the product.• Wash hands thoroughly after handling.• Do not eat, drink or smoke when using this product.
Prevention	
Response	<ul style="list-style-type: none">• IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.• IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.• If the eyes are exposed to the product: Rinse the eyes with plenty of running water and immediately contact a physician.• IF ON SKIN: Wash with plenty of soap and water.
Storage	<ul style="list-style-type: none">• The product must be stored in a cool, well-ventilated location where it will not be exposed to direct sunlight.• Containers that have been opened must be tightly sealed.
Disposal	<ul style="list-style-type: none">• Dispose of contents/container in accordance with local/regional/national/international regulations.• If there are any doubts about proper methods of handling the product, contact the point of purchase before proceeding with usage.