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PRODUCT DATA SHEET

SUPER HIGH PERFORMANCE RACING OILS

DESCRIPTION

HI-TEC SUPER HIGH PERFORMANCE RACING OILS are very specialised high performance four stroke racing engine oils, which are specially formulated to ensure trouble-free lubrication of all high stressed racetrack engines. These ultra-performance oils provide sustained endurance under the rigours of competition racing where engines are frequently stressed to their limits: extremes of load, turbocharging, speed and high operating temperatures. The special additive chemistry with enhanced zinc anti-wear levels employed in **HI-TEC SUPER HIGH PERFORMANCE RACING OILS** maximises lubricant related power output and gives complete protection against scuffing and scoring of rapidly moving engine components.

HI-TEC SUPER HIGH PERFORMANCE RACING OILS are recommended where high octane gasolines and their mixtures and other high energy fuels such as methanol and nitromethane are employed. These premium engine oils are also ideally suited to conventional cars in both city and highway motoring.

CHARACTERISTICS

RESISTS WEAR & STRESS FAILURES. Standing starts, rapid accelerations and the high speeds of racing impose extreme loads on all engine moving parts. **HI-TEC SUPER HIGH PERFORMANCE RACING OILS** give complete protection to these highly stressed engines against scuffing, scoring and seizure. Extreme pressure and special anti-wear additives protect the moving engine parts against premature wear.

ARRESTS FOAM DEVELOPMENT. The rapid circulation of engine oil in racing engines quickly tends to promote undesirable foam formation. If not arrested, foam can quickly lead to engine seizure since the air/oil foam mixtures cannot sustain effective lubrication. **HI-TEC SUPER HIGH PERFORMANCE RACING OILS** are fortified with a combination of special foam inhibitors which eliminate foam development so that full-bodied lubrication is realised under arduous competition racing conditions.

PEAK PERFORMANCE. Increased RPM's, though small, are a realisable bonus with **HI-TEC SUPER HIGH PERFORMANCE RACING OILS** since the lower apparent viscosity when compared to other oils results in less internal engine friction. The shear stable viscosity index improver polymers which are formulated into **HI-TEC SUPER HIGH PERFORMANCE RACING OILS** contribute to this special benefit. They have the ability to minimise viscosity decreases as temperatures increase so that lubrication is sustained in the critical HIGH TEMPERATURE ring belt areas. The special polymers allow, in the cooler areas of the engine, the heavily loaded bearings to sense a lower oil viscosity which further assists in reducing fluid drag thus promoting the increased engine RPM's because of less frictional losses.



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BETTER COMBUSTION - MAXIMUM POWER. HI-TEC SUPER HIGH PERFORMANCE RACING OILS employ LOW ASH additive chemistry so that deposit formation attributed to oil in the combustion zone is limited, thereby eliminating power wasting pre-detonation.

Because racing engines rely on unique engineering and design modifications to maximise high power output and high speeds, it is essential that these engines be tuned to peak performance. When deposit formation occurs in the combustion zone, increases in compression ratio result, which may promote power loss due to inefficient premature fuel ignition. Whilst auto-ignition, audible or inaudible, can be effectively tuned out of engines, it may be at the expense of power and speed and require non-standard fuels with improved anti-detonation characteristics to rectify the problem. These special fuels, however, may not be permissible in the competition event. Reduced deposit formation limits the need for these modifications.

SERVICE RECOMMENDATIONS

Recommended for four stroke racing engines, normally aspirated or turbocharged, using gasoline, methanol and other high energy fuels such as nitromethane. Also for city and highway motoring.

HI-TEC SUPER HIGH PERFORMANCE RACING OILS meet the following performance specifications: API SN, SM, SL, SJ, SH/CF, CD, CE

TYPICAL TESTS

	<u>ASTM METHOD</u>	<u>SAE 50</u>	<u>SAE 70</u>	<u>SAE 25W60</u>
Product Code		2055	2054	2056
Density, Kg/Lt at 15.0°C	D.1298	0.889	0.895	0.906
Viscosity, cSt at 100°C	D.445	21.5	29.0	26.25
Viscosity, cSt at 40°C	D.445	215	330	285
Viscosity Index	D.2270	120	120	120
Pour Point, °C	D.97	- 27	-24	-27
Flash Point, COC, °C	D.92	246	250	248
Ash, Sulphated % Mass	D.874	1.15	1.04	1.04
Total Base Number	D.2896	7.65	7.62	7.62
Foaming Characteristics - All Sequences	D.892	Nil	Nil	Nil
Zinc, % Mass	P308	0.22	0.15	0.15
Phosphorus, % Mass	D.1091	0.20	0.13	0.13
Nitrogen, % Mass	-	0.07	0.07	0.07
Calcium, % Mass	-	0.24	0.24	0.24

"Hi-Tec Oil Traders Pty Ltd (Hi-Tec Oils) has endeavoured to ensure that all information, representations and specifications contained in this product data sheet are accurate at the time of publication. This general information should be used in conjunction with appropriate inquiries by users of the product including consultation with the vehicle or equipment manufacturers published information.

It is the responsibility of users of the product to use the product safely. Users should consult the safety data sheets for each product at www.hi-tecoils.com.au. Hi-Tec Oils takes no responsibility for injury or damage if the product is used in an inappropriate or unsafe manner. Our product warranty and product quality statement can be viewed at www.hi-tecoils.com.au"

AVAILABLE IN: 200 litres, 20 litres, 5 litres

Effective: June 2013
Expires: June 2015
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