



Hi-Tec Oil Traders Pty Ltd ABN 28 053 837 362

5 Tarlington Place Smithfield NSW 2164

Correspondence: P.O Box 322 Castle Hill NSW 1765

Ph: 1300 796 009 | Fax: (02) 9604 1611 | Email: hitecoils@hi-tecoils.com.au

www.hi-tecoils.com.au

PRODUCT DATA SHEET

SYNPLUS LL-01 5W/30

DESCRIPTION

Hi-Tec Synplus LL-01 5W/30 is a full synthetic, full SAPS, super high performance engine oil which combines the latest development in oil formulation and additive technology to provide lubricating oil with the highest level of protection.

Today's environmentally conscious market demands reduced emissions and increased fuel efficiency. This has led to the development of new engine designs resulting in demands for higher quality lubricants.

In recent years car manufacturers have developed smaller, higher output engines to meet stricter fuel economy limits. Small engines help decrease vehicle weight and improve economy but these engines impact lubricants through:

- **Increased heat** which accelerates the rate of oil oxidation, nitration and deposit formation. This degrades the oil and encourages the creation of more acid and increases viscosity.
- **Increased pressure and speed** which makes it harder for the oil to maintain a lubricant film to prevent metal on metal contact. This accelerates valve train wear.
- **Emission Control.** Most of today's petrol engines are fitted with catalytic converters which reduce emissions of CO, NOx and unburned carbon. Catalytic converters however are susceptible to SAPS (Sulfated Ash, Phosphorous and Sulfur) which are present in engine oil detergents and antiwear additives and in base oils.

Hi-Tec Synplus LL-01 5W/30 is designed to meet these challenges to the vehicle's lubricant system.

SPECIFICATIONS:

Hi-Tec Synplus LL-01 5W/30 meets:

API:	SL, CF
ACEA:	A3/B4-10, A3/B4-08
BMW Longlife	LL-01
Mercedes Benz	229.3, 229.5
VW	502.00, 505.00
Opel/GM	LL-B-025



AUSTRALIAN FAMILY OWNED SINCE 1989





Hi-Tec Oil Traders Pty Ltd ABN 28 053 837 362

5 Tarlington Place Smithfield NSW 2164

Correspondence: P.O Box 322 Castle Hill NSW 1765

Ph: 1300 796 009 | Fax: (02) 9604 1611 | Email: hitecoils@hi-tecoils.com.au

www.hi-tecoils.com.au

PRODUCT DATA SHEET

Hi-Tec Synplus LL-01 5W/30 meets or exceeds the following demanding performance requirements:

API SL: Hi-Tec Synplus LL-01 5W/30 is classified as API SL. It has the performance of an API SN lubricant but due to the phosphorus level restrictions of 0.06% minimum to 0.08% maximum on the ILSAC viscosity grade oils, API SM and API SN claims cannot be made with this 5W-30 lubricant. The API SN grade is the newest passenger car gasoline engine oil service category which requires improved oxidation resistance and deposit protection which today's smaller higher output engines demand, better wear protection for valve trains and reduced evaporative loss with less requirement for top up oil. API SN oils provide better low-temperature performance over the life of the oil, extended oil drain intervals in line with the engine manufacturers' recommendations, and extended life for catalytic converters.

ACEA A3/B4: Hi-Tec Synplus LL-01 5W/30 meets the requirements of the of the European Automobile Manufacturers Association (ACEA) A3/B4 grade which calls for a stable, stay in grade oil for use in high performance gasoline and direct injection diesel engines and car or light van diesel engines. These A3/B4 oils may also be used in applications requiring A3/B3 oils and for extended drain intervals where specified by the engine manufacturer and/or as year round low viscosity oils and/or for severe conditions as defined by the engine manufacturer.

DaimlerChrysler MB229.5 and MB229.3: Hi-Tec Synplus LL-01 5W/30 can be used where MB229.5 and MB229.3 are called for. The synthetic formulation meets the extended drain requirements of Mercedes Benz. Its lower volatility will reduce the evaporation of lighter oil fractions which would lead to oil thickening, contaminant concentration and increased oil consumption.

BMW Longlife LL-01: Hi-Tec Synplus LL-01 5W/30 meets the environmentally driven BMW Longlife-01 oil standard. The full-SAPS formula keeps the engine and exhaust system clean which reduces harmful emissions. Full-SAPS technology is not suitable for diesel models requiring ACEA C3 performance.



AUSTRALIAN FAMILY OWNED SINCE 1989





Hi-Tec Oil Traders Pty Ltd ABN 28 053 837 362

5 Tarlington Place Smithfield NSW 2164

Correspondence: P.O Box 322 Castle Hill NSW 1765

Ph: 1300 796 009 | Fax: (02) 9604 1611 | Email: hitecoils@hi-tecoils.com.au

www.hi-tecoils.com.au

PRODUCT DATA SHEET

TYPICAL PROPERTIES

<u>TYPICAL PROPERTIES</u>	<u>RESULT</u>
Density, kg/ltr @15°C	0.859
Viscosity, cSt @100°C	11.9
cSt @40°C	68.3
Cranking, cP @-30°C	6100
Viscosity Index	172
HTHS, cP	3.5
Total Base Number, mg KOH/g	10.1
Sulphated Ash, % wt	1.17
Phosphorus Content, % wt	0.09
Flash Point, °C min	200
Colour	Amber

Item Code: 2108

"The facts stated and the recommendations made herein are believed to be accurate. No guarantee of their accuracy is made however, and unless otherwise expressly provided in written contract, the products are sold without conditions or warranties, expressed or implied. Purchasers should determine the suitability of such products for their particular purposes"

Effective: July 2014

Expires: July 2016

GH417052/3



AUSTRALIAN FAMILY OWNED SINCE 1989

