



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

GEAR OILS 80W90 & 85W140

PRODUCT DESCRIPTION

Hi-Tec GEAR OILS are superior GL-5 gear oils designed to provide

- Excellent Thermal Stability
- Much Improved Oil Seal Life
- Much Improved Durability (Gear Surface Life)
- Much Improved Corrosion Protection to Yellow Metals under both wet and dry conditions.

All of these improvements overcome the growing concerns of the gear manufacturers (OEM's - Original Equipment Manufacturers), vehicle and fleet owners relative to these performance areas when operating with the former generation of conventional hypoid extreme pressure drive train lubricants.

Hi-Tec GEAR OILS are specified irrespective of service severity, for the lubrication of car, truck and tractor differentials and other final drives, transfer and steering gearboxes and manual transmissions. Special oxidation resistant paraffinic base oils combined with high performance extreme pressure (EP) additives are formulated in **Hi-Tec GEAR OILS** to ensure long service life to transmission drive lines.

SPECIFICATIONS

Hi-Tec GEAR OILS are recommended for initial and service fill and top-up of car, truck and tractor manual transmissions, differentials, final drives and transfer and steering gearboxes.

Hi-Tec GEAR OILS meets the following performance requirements:

Automotive: API GL5
Military specification: MIL-L-2105D.

CHARACTERISTICS

THERMAL STABILITY. **Hi-Tec GEAR OILS** provide protection against the formation of sludge, oxidation and carbonaceous deposit build-up and excessive viscosity increases, thereby ensuring long service life of transmission components. Thermal Stresses on gear oils in modern high performance transmissions have increased due to the following:-

- Change in vehicle aerodynamics
- Wider use of driveline retarders
- Increased "Power Density" for transmission and rear axles
- Extended slow speeds and high loads
- Higher ambient temperatures
- Higher horsepower
- Extended warranties/reduced maintenance etc.

Excessive heat build up can occur (up to 180°C), resulting in oil degradation and increased friction and wear.



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

BENEFITS

OXIDATION STABILITY: Hi-Tec GEAR OILS avoid lubricant related high temperature degradation problems of "coked" transmission synchronisers and reduced oil flow to gear and bearings (due to obstructed oil passageways or filters) so that costly transmission failures associated with lubricant do not occur.

IMPROVED DURABILITY: Hi-Tec GEAR OILS provide excellent long term protection against pitting fatigue, which is the life limiting variable of a gear set. OEM's recognise that lubricant protection against pitting is a very important design variable for long transmission life. Field tests, laboratory spalling and power divider snap tests confirm Hi-Tec GEAR OILS ability to give long durability to gear sets.

CORROSION PROTECTION: Protection is afforded by Hi-Tec GEAR OILS to copper alloys under both wet and dry conditions. There is no corrosion causing interaction between these metals and the special EP additives incorporated in Hi-Tec GEAR OILS, as may occur with other commercially available EP additives.

GEAR TRAIN RATTLE & NOISES ELIMINATED: The "stay on" properties of the high film strength Hi-Tec GEAR OILS effectively quieten transmission drive line noise tendencies under all conditions of low speed high torque, high speed low torque and shock loading.

FOAM INHIBITORS: Hi-Tec GEAR OILS avoid the natural development of foam in transmission service. Foam is undesirable because it promotes ineffective gear lubrication with resultant premature wear.

AVAILABLE IN

200Litres, 60Litres, 20Litres, 2.5Litres



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 TESTS</u>	<u>80W/90</u>	<u>85W/140</u>
Item code	2441	2449
Qualification	GL5	GL5
Appearance	Natural	Natural
Density, Kg/Lt at 15°C	0.90	0.91
Viscosity, cSt at 40°C	150	330
cSt at 100°C	16.0	25.0
cP at ()°C	142,000 (-26)	141,000 (-12)
Viscosity Index	104	98
Pour Point °C	-33	-21
Copper Strip Corrosion, 3 hours at 100°C	1b	1b
Flash Point, COC, °C	250	258
Carbon Residue, Conradson %	0.39	0.59
Foaming characteristics -		
Sequence 1, After Settling	Nil	Nil
Sequence 2, After Settling	Nil	Nil
Sequence 3, After Settling	Nil	Nil

"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"

Effective: October 2014

Expires: October 2016

EH410192/1



AUSTRALIAN FAMILY OWNED SINCE 1989

