

HDH Gear Oil

Heavy-Duty Hypoid Gear Oil

Features & benefits

- Outstanding service with proven performance over millions of miles
- HDH 80W-90 LS is suitable for service in limited-slip differentials
- Excellent oxidation control
- Minimizes the formation of sludge and deposits
- Formulated for use in non-synchronized manual transmissions



HDH Gear Oils are Extreme Pressure (EP) automotive gear lubricants made from high-quality, high-viscosity index (VI) paraffinic base oils.

HDH Gear Oil's special additives provide high load-carrying protection with excellent rust, corrosion, and foam prevention. Excellent oxidation control and thermal stability prevent the formation of sludge and deposits, leaving gears clean through many miles of service.

HDH Gear Oils are recommended for light and heavy-duty axles and non-synchronized manual transmissions. These oils are also suitable for outdoor industrial applications with enclosed gear sets that require high film strength.

HDH 80W-90LS Gear Oil was designed to enhance limited-slip differential performance and reduce or eliminate limited-slip chatter.

HDH Gear Oil can be used in most applications requiring a GL-4 fluid. However, HDH Gear Oil should **not** be used in synchro-mesh transmissions where GL-4 is required.

Specifications

✓ Meets requirements ■ Suitable for use

Specification	75W-90	80W-90	85W-140	80W-90LS
API GL-5	✓	✓	✓	✓
API MT-1	✓	✓	✓	✓
MERITOR 0-76-A	-	-	■	-
MERITOR 0-76-D	-	■	-	■
MAN 342 M-1 (Obsolete)	✓	✓	✓	-
ZF TE-ML 07A & 08	■	■	■	■
FORD WSP-M2C197-A	-	■	-	✓
Limited Slip Drain-and-Fill or Top-off	-	-	-	✓

Typical results

Test Method	75W-90	80W-90	85W-140	80W-90LS
VISCOSITY (D445)				
cSt @ 40°C	95	137	341	125
cSt @ 100°C	16.8	14.7	26.7	14.2
VISCOSITY INDEX (D2270)	193	108	104	113
DENSITY @ 15°C (D4052), kg/L	0.88	0.89	0.91	0.90
POUR POINT (D97), °C	-45	-33	-18	-33
FLASH POINT (D93), °C	151	170	167	154
BROOKFIELD (D2983)				
cP @ -26°C	-	109,200	142,000	80,000
cP @ -40°C	139,600	-	-	-



Always consult your owner's manual for verification of fluid type and grade!

Supporting data available to demonstrate acceptable performance. Check with Sales Associate for the latest product approvals.

Please note these are typical performance indicators and can change without notice.

This data sheet replaces previous versions prior to Sept 29, 2023.

www.irvingoil.com/lubricants 1.800.574.5823

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Sizes & order codes

Size	75W-90	80W-90	85W-140	80W-90LS
946 mL (1 US QT)	-	F0005415	-	-
3.78 L (1 US gal)	-	F0005426	-	-
18.9 L (5 US gal)	F0086840	F0087040	F0087140	F0080340
60 L (15.85 US gal)	F0005245	F0005445	F0005545	-
205 L (54.2 US gal)	-	F0012550	F0012650	F0073550
1000 L (264 US gal)	F0005260	-	F0012601	-
1000 L (264 US gal) Bulk Tote	-	F0111301	F0012601	-
Bulk	B0005201	B0005401	B0005501	B0073501



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