



**HDH** is amber to dark colored mineral oil. HDH oils are extreme pressure (EP) automotive gear lubricants made from high quality, high viscosity index (VI) paraffinic base oils. Their special additives make them particularly effective at providing high load-carrying protection with excellent rust, corrosion and foam prevention. Excellent oxidation control and thermal stability prevents the formation of sludge and deposits, leaving clean gears after many thousands of miles service.

**HDH** oils are also able to satisfy the top-up requirements of limited-slip differentials.

**HDH** is recommended for all automotive differentials, as well as transmissions where the manufacturer specifies the use of oils that meet the performance requirements of API MT-1.

**HDH** oils in outdoor industrial applications are suitable for enclosed gear sets. Their high film strength gives low wear rates even in slow speed, heavily-loaded gear sets.

**HDH 80W90 LS** are suitable for use in limited-slip differentials, giving strong performance in the Big Wheel / Little Wheel test as well as the Low Velocity Friction Apparatus.

### Features

Meets or exceed the following severe performance requirements:

- API GL-5
- API MT-1
- Rockwell 076-A (80W90)
- Rockwell 076-D (85W140)
- US MIL-PRF-2105E
- Mack GO-J (approved)
- ZF

### Benifits

- Outstanding service
- Full industry approvals
- Suitable for service in limited-slip differentials
- Proven performance over millions of miles

## Typical performance results

SAE GRADE	75W90	80W90	80W140	85W140	80W90 LS
<b>VISCOSITY (D-445)</b>					
cSt @ 40°C	92.2	136.9	250.0	340.5	125.0
cSt @ 100°C	16.7	14.7	30.0	26.7	14.2
<b>VISCOSITY INDEX (D-2270)</b>	197	108	160	104	113
<b>BROOKFIELD VISCOSITY (D-2983)</b>					
cP @ -12°C	-	-	-	-	---
cP @ -26°C	-	109200	71200	142000	60000
cP @ -40°C	138000	-	-	-	---
<b>POUR POINT (°C) (D-97)</b>	-42	-33	-24	-20	-33
<b>CHANNEL POINT (°C)</b>	-43	-35	-30	-22	-35
<b>DENSITY @ 15°C (D-4052) Kg/l</b>	0.886	0.893	0.897	0.905	0.896
<b>FLASH POINT (°C) (D-92)</b>	194	234	228	246	222
<b>TIMKEN LOAD (D-2782) (KG)</b>	32	32	32	32	32

## Available sizes & part numbers

HDH	946ml (1 US quart)	3.78L (1 US gal)	18.9L Pail (5.0 US gal)	60 L (15.85 US gal)	205L Drum (54.2 US gal)	1000L (264 US Gal)	Bulk
HDH 75W90			F0086840	F0005245	F0012450	F0005260	B0005201
HDH 80W90	F0005415	F0005426	F0087040	F0005445	F0012550	F0005460	B0005401
HDH 80W140			F0086940	F0005345	F0005350	F0005360	B0005301
HDH 85W140			F0087140	F0005545	F0012650		B0005501
HDH 80W90 LS			F0080340		F0073550		B0073501



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