



RED LINE SYNTHETIC OIL CORP.

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Synthetic Gear Lubricants

Red Line Gear Oils are designed to provide excellent low-temperature characteristics and improved gear protection at higher temperatures. Red Line Gear Oils will reduce differential temperatures 10-70°F. Efficiency improvements between 1-5% are typical. The synthetic base stocks used have tremendous thermal stability and provide the best film strength available. The unique combination of base stocks and additives allow Red Line gear oils to carry higher loads compared to petroleum lubricants. The stability of these products allow them to be used for extended periods. Red Line 75W90 Gear Oil provides excellent protection in nearly all differentials, conventional and limited slip, in both racing and street use. 75W90NS and 75W140NS can be used in certain limited-slip units in racing to lock-up the differential. 80W140 should be used in commercial hauling, problem limited-slip units, racing applications which see tremendous torque at low speeds, and where noise deadening is desired. LightWeight or SuperLight can be used to obtain maximum power transfer in racing differentials which do not see extremely high temperatures. If “chattering” occurs with any of these lubricants, Red Line Limited Slip Friction Modifier can be used to eliminate the stick/slip action and reduce the noise. This additive should not be necessary in the 75W90 or the 80W140 Gear Oils, since they already contain this additive, but in some units more is required. Too much friction modifier can reduce the lockup in limited slip units, so it should only be used if needed.

Typical Properties

	<u>SuperLight</u>	<u>LightWeight</u>	<u>75W90</u>	<u>75W90NS</u>	<u>80W140</u>	<u>75W140NS</u>	<u>75W140</u>
API Service Class:	GL 5	GL 5	GL 5+	GL 5+	GL 5+	GL 5+	GL 5+
Viscosity Grade: SAE	70W/75W	75W80	75W90	75W90	80W140	75W140	75W140
Vis @ 100°C, cSt	5.0	10.5	16.4	15.6	26	26.9	27.4
Vis @ 40°C, cSt	23.9	62	115	95	231	179	180
Viscosity Index	139	160	155	176	144	188	191
Brookfield Viscosity, Poise	1400 @ -55°C	500 @ -40°C	1100 @ -40°C	400 @ -40°C	500 @ -26°C	1200 @ -40°C	1300 @ -40°C
Pour Point, °C	-45	-45	-45	-45	-40	-45	-45
Pour Point, °F	-49	-49	-49	-49	-40	-49	-49
Flash Point, °C	221	224	227	221	224	216	221
Flash Point, °F	430	435	440	430	435	420	440