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Product Data Sheet

NOTE: The information in this publication is the result of careful testing in our laboratories, complemented by selected literature. It does not in any way constitute a guarantee, nor does it serve as a license to operate any patent. Due to widely varying conditions of product use, which are beyond our control, it is strongly recommended that the product be tested for suitability. Product typical properties in this publication are current as of Sept. 22, 2010



SYNTHETIC MOTOR OIL

SYNTENAL SERIES

Summit Syntenal Motor Oils have been designed and formulated using the finest synthetic base stocks available. These base stocks have been fortified with an additive system employing the latest in additive technology. The superior quality of Summit Motor Oils insures excellent performance in diesel or gasoline engines.

Summit Motor Oils are manufactured to meet the demands of today's hotter running, high performance engines, giving protection under demanding conditions. There are many excellent petroleum oils available in today's market; however, while they are good products, they do not possess the favorable characteristics found in a quality synthetic oil. Some of these characteristics are as follows:

- **Excellent Natural Lubricity** - This natural lubricity along with the anti-wear additive reduces damaging friction.
- **High Viscosity Index** - This feature reduces the thinning-out effect of oil at elevated temperature.
- **Long Life Lubricant** - Because synthetics can tolerate higher temperatures, there is less oxidation and less possibility of forming corrosive acids.
- **Low Pour Point** - Synthetics have very low pour points which allow better low temperature fluidity. This feature provides better lubrication at start-up, thereby reducing start-up wear.
- **Excellent Anti-Wear Properties** - Synthetics offer excellent natural lubricity and when coupled with anti-wear additives, these lubricants give additional protection in heavy loaded areas such as valve trains, etc.
- **Extended Drain Intervals** - In gasoline engines, up to three times longer service than a standard petroleum oil.

Summit Syntenal Synthetic Motor Oils conform to the most current and highest quality performance requirements of:

- API CI-4/SL
- API CH-4/CG-4/CF-4/CF-2/SJ
- ACEA /A3
- Mack EO-M
- Cummins CES 20071
- Volvo VDS
- Daimler Chrysler 228.1
- MTU Type 1
- MAN 271
- Mack EO-M Plus
- Cummins CES 20076
- Cummins CES 20072
- Daimler Chrysler 229.1

PHYSICAL PROPERTIES

SAE Grade	0W/30	5W/30	10W/30	10W/40	15W/50
Specific Gravity	0.856	0.857	0.854	0.860	0.861
Flash Point, °F	457	455	450	460	460
Pour Point, °F	-78	-76	-70	-50	-40
Viscosity, cSt @ 40°C	52.2	54.0	63.5	94.7	127.6
Viscosity, cSt @ 100°C	9.70	10.00	11.11	14.57	18.42
Viscosity, SUS @ 100°F	265	274	322	482	653
Viscosity, SUS @ 210°F	59.0	60.1	64.2	77.5	93.8
Viscosity Index	174	175	169	160	162

CUSTOMER BENEFITS:

- Reduced Oil Consumption
- Superior Lubrication at All Temperatures
- Faster Starting in Cold Weather
- Longer Engine Life
- Increased Fuel Economy