

Delo[®] Sports Advanced SAE 5W-40

Sports Utility Vehicle Synthetic Engine Oil



Product description

Delo[®] Sports Advanced SAE 5W-40 with ISOSYN Advanced Technology is a super-premium quality “low-SAPS” synthetic diesel engine oil specifically designed to provide ultimate protection for sport utility, sport activity, pick up and 4x4 type vehicles that require heavy-duty type engine oils and are operating under the most severe service conditions.

Customer benefits and product features

Customer benefits

- **Maximizes engine life** - Very highly oxidation stable synthetic base fluid combined with excellent dispersancy and anti-wear characteristics, providing performance meeting the severe requirements of API CK-4, minimize deposit formation and wear thereby extending engine life. Control of soot related wear is especially important in SUV type diesel engines subject to stop/start city driving or in hard working off-road service. Wide range multigrade viscosity provides additional protection against wear at start-up and under high temperature operating conditions.
- **Preserves full power and performance** - High performance synthetic base fluid combined with outstanding metallic detergent additive system preserves full power and performance by providing excellent upper-ring-belt deposit control under the high temperatures encountered in turbocharged diesel engines.
- **Minimizes operating costs** - Excellent deposit control on valves and piston crownlands reduces oil consumption. Exceptional oxidation stability and soot control provides extended oil drain capability so that equipment is in service longer generating revenue. In comparison with conventional SAE 20W-50 engine oils, the fully synthetic SAE 5W-40 formulation with outstanding viscosity control provides a moderate fuel economy benefit.
- **Low Temperature Protection** - Low viscosity synthetic base stock promotes consistent cold engine starting for gasoline and diesel engines operating in sub-zero temperatures thus protecting against start-up wear.
- **Reduced emissions** - Formulated with latest generation “low-SAPS” (sulfated ash, phosphorus and sulfur) technology containing reduced levels of metals, phosphorus and sulfur which maximizes the life of sensitive catalyst metals.
- **Reduces oil consumption** - SAE 5W-40 wide-multigrade viscosity and high viscosity index synthetic base fluid provide superior control of oil flow through the ring belt area by maintaining oil viscosity, and reduce oil evaporation at the elevated ring zone temperatures experienced under high temperature on or off-road conditions.

Product features

- It is formulated using the most advanced additive technology and synthetic base fluids to provide outstanding protection for on and off-road applications, including those with the latest low emission diesel engines.

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Applications

- Sport utility and sport activity recreational vehicles, diesel-engined, where HDMO type oils of API CK-4 or lower performance are required
- High performance pick up and 4x4 type vehicles, diesel-engined, where HDMO type oils of API CK-4 or lower performance are required
- Other diesel powered light commercial vehicles where HDMO type oils of API CK-4 or lower performance are required
- Diesel engines utilizing diesel fuels with up to 20% biodiesel (B20)*Is

Not suitable for use in light-duty diesel engines where passenger car-type diesel engines oils are required, such as those meeting the ACEA A/B or C Sequences, nor in gasoline engines, gas-fuelled engines or motorcycle engines.

*Note: * When using Biodiesel blended fuel meeting ASTM D7467 (B6 – B20) or equivalent. When using >B6 biodiesel it is critical to monitor the engine oil level and performance.*

Product approvals, performance and recommendations

Performance

- API CK-4
- CJ-4, CI-4 PLUS, CI-4, CH-4/ SN
- ACEA E7, E11
- JASO DH-2

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Service considerations

Light-duty diesel engines, as used in passenger cars, light commercial vehicles and sport-utility vehicles vary in their lubricant requirements. Typically the requirement is for engine oils that have been designed expressly for light-duty diesel engines, and which meet one of the major light-duty diesel engine oil specifications, such as ACEA A3/B4, the ACEA C-series Sequences, and JASO DL-1. These specifications require performance characteristics that are somewhat different to those customarily associated with heavy-duty engine oils (HDMOs). For such engines, an appropriate oil selection may be made from the Havoline[®] Fully Synthetic, Havoline[®] Synthetic Blend range of products as well as Delo Sports Advanced SAE 5W-30.

Nevertheless, there are some light-duty diesel engines, particularly those from Asian builders, for which HDMOs that meet a current or recent API C-series category are either required or acceptable. The Delo[®] Sports series is intended for use in such engines.

When using with bio-diesel blended fuel meeting ASTM D7467 (B6 – B20) or equivalent it is critical to monitor the engine oil level and performance. Fuels with higher biodiesel content increase the risk of fuel dilution in the engine oil. This reduces the oxidation stability of the engine oil as biodiesel tends to oxidise more rapidly thus directly impacting the oil drain intervals. Biodiesel contents greater than B6 have a lower energy content than diesel fuel, which may result in slight horsepower loss and slightly increased fuel consumption.

Always follow OEM recommendation for appropriate fuel and engine oil selection.

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Typical test data

DELO [®] SPORTS ADVANCED SAE 5W-40	TEST METHOD	RESULTS
SAE Grade		5W-40
Product Code		500832
Base No., mg KOH/g	ASTM D2896	11
Phosphorus, m %		0.115
Sulfated Ash, m %	ASTM D874	1.0
Viscosity, mm ² /s @ 40°C	ASTM D445	88.7
mm ² /s @ 100°C	ASTM D445	14.4
Viscosity Index	ASTM D2270	169

This bulletin was prepared in good faith from the best information available at the time of issue. While the values and characteristics are considered representative, some variation, not affecting performance, can be expected. It is the responsibility of the user to ensure that the products are used in the applications for which they are intended. Produced by Chevron Global Lubricants: Asia Pacific.

ENVIRONMENT, HEALTH and SAFETY. Information is available on this product in the Material Safety Data Sheet (MSDS) and Customer Safety Guide. Customers are encouraged to review this information, follow precautions and comply with laws and regulations concerning product use and disposal. To obtain a MSDS for this product, visit the [Product Information Center](#).

This Product Data Sheet (PDS) was produced for the Asia Pacific region based on the best available information at the time of issue. The specific information included may not directly reflect the market or conditions, and may vary. For the most up-to-date, country-specific information, please contact your local customer service center

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