



# Delo<sup>®</sup> Sports Advanced SAE 5W-40

## Sports Utility Vehicle Synthetic Engine Oil

Product Data Sheet

### 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.

#### Minimize 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:

- **Delo<sup>®</sup> 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.
- 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.

**ISOSYN**  
**ADVANCED**  
TECHNOLOGY™



## 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)\*

*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.

**Note:** for use with Diesel and Gasoline powered vehicles without DPF or GPF Aftertreatment Systems.

## Typical key properties

DELO® SPORTS ADVANCED		
SAE Grade	ASTM	5W-40
Product Code		500832
Base No.,mg KOH/g	D2896	10
Phosphorus, m %		0.08
Sulfated Ash, m %	D874	1.0
Viscosity,		
mm <sup>2</sup> /s @ 40°C	D445	96.0
mm <sup>2</sup> /s @ 100°C	D445	15.4
Pour Point, °C	D2270	170

2009

## Performance standards

- API CK-4, CJ-4, CI-4 PLUS, CI-4, CH-4/ SN
- ACEA E9
- JASO DH-2



## 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 biodiesel blends containing >6% B100, monitoring oil condition is critical. 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 B5 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.

## 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 [www.caltex.com](http://www.caltex.com)

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