



PRISTA® SHPD LS 15W-40

Old name: Prista Super SHPD

ULTRA HIGH PERFORMANCE DIESEL ENGINE OIL

Description and Application

Prista® SHPD LS 15W-40 is a new category engine oil of medium SAPS level intended for moderately extended oil drain intervals. This oil is based on API Group II base oils as per the new motor oil tendencies and complies with the requirements imposed by the heavy duty diesel engines bio-diesel fuel in accordance with EU regulations.

This lubricant is designated for the lubrication of the most modern heavy duty and heavy-loaded diesel engines used in international haulage and equipped with the modern aftertreatment systems (EGR or SCR) for hazardous NOx reduction and/or diesel particulate filters (DPF) combined with low-sulphur diesel fuels.

Prista® SHPD LS 15W-40 multigrade engine oil is recommended for highly rated diesel engines complying with Euro IV, Euro V & Euro VI low emission standards and operated under severe loads and conditions.

Benefits

- Protection against cylinder bore polishing and wear
- High engine cleanliness with considerably extended drain intervals up to 60 000 km
- Problem-free operation even in case of a heavily sooted oil
- High temperature thickening protection
- Bearing corrosion protection
- Foam control
- Easy engine start-ups even at very low sub-zero temperatures

Specifications

	SAE 15W-40
ACEA	E9/E7
API	CK-4/SN
JASO	DH-2
MB	228.31
MAN	M 3775
Volvo	VDS 4.5
Renault Trucks	RLD-4, RLD-3
MTU	Type 2.1
Deutz	DQC III-10-LA
Caterpillar	ECF-3
Cummins	CES 20086
Mack	EO-S-4.5
Detroit Diesel	93K222
FORD	WSS-M2C-171-F1
Allison	TES 439

Typical Characteristics

Parameter	Test Method	Typical Value
Density at 20°C, g/ml	EN ISO 3675	0.882
Kinematic Viscosity at 100°C, mm ² /s	EN ISO 3104	14.8
Kinematic Viscosity at 40°C, mm ² /s	EN ISO 3104	109
Viscosity Index	ISO 2909	140
Flash point COC, °C	EN ISO 2592	234
Pour point, °C	ISO 3016	-33
TBN (HClO ₄), mg KOH/g	ASTM D 2896	9.5
Sulfated Ash, %	EN ISO 3987	1.0

Important note: typical data values do not constitute a specification but are an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved.

Prista Oil Holding EAD
www.prista-oil.com



Health, Safety and Handling

Based on current available information, this product is not expected to produce adverse effects on health when used for the intended application. For more information about product MSDS, terms and conditions for storage and shelf life please visit: www.prista-oil.com



PRISTA® UHPD 10W-40

HEAVY DUTY DIESEL ENGINE OILS

Description and Application

Prista® UHPD 10W-40 is top quality synthetic diesel engine oil designated for the lubrication of heavy-duty diesel engines designed according to the latest international diesel exhaust emission standards Euro IV, Euro V and Euro VI and equipped with the relevant diesel particulate filters.

Prista® UHPD 10W-40 is recommended for use in the latest makes and models of turbocharged diesel engines, operated at severe loads and conditions in heavy-duty trucks and buses whose manufacturer recommend extended oil drain intervals. For the optimum oil drain interval the users should follow the applicable manufacturers' recommendations for the relevant performance levels below.

Benefits

- the best choice for Euro IV, Euro V and Euro VI heavy duty diesel engines
- engine cleanliness at significantly extended oil drain intervals
- extremely minimized hazardous exhaust emissions
- protection against cylinder bore polishing and cylinder liner wear
- problem-free engine start-ups at very low ambient temperatures

Specifications

	SAE 10W-40
ACEA	E6/E7/E9
API	CK-4
Daimler Trucks	DTFR 15C110, DTFR 15C120
MB-old specification	228.51/228.31/228.52
MAN	M 3477, M3775
Volvo	VDS-4.5
Renault Trucks	RLD-3
MTU	Type 3.1
Deutz	DQC IV-18LA
Mack	EO-S-4.5
Cummins	CES 20086
Caterpillar	ECF-3
JASO	DH-2

Typical Characteristics

Parameter	Test Method	Typical Value
Density at 20°C, g/ml	EN ISO 3675	0.855
Kinematic Viscosity at 100°C, mm ² /s	EN ISO 3104	14.6
Kinematic Viscosity at 40°C, mm ² /s	EN ISO 3104	96.3
Viscosity Index	ISO 2909	158
Flash point COC, °C	EN ISO 2592	240
Pour point, °C	ISO 3016	-39
TBN (HClO ₄), mg KOH/g	ASTM D 2896	10.4
Sulfated Ash, %	EN ISO 3987	1.0

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Delo 400 XSP-SD SAE 5W-30

High performance synthetic heavy-duty diesel engine oil

Product description

Delo® 400 XSP-SD SAE 5W-30 is a high performance synthetic heavy duty engine oil designed for fuel economy and meets the performance requirements of a wide range of naturally aspirated and turbocharged diesel engines in on-highway, off-highway and construction service.

Delo 400 XSP-SD SAE 5W-30 is based on ISOSYN® technology with low SAPS performance and dispersant, detergent, oxidation, anti-wear, corrosion, viscosity improver and de-foaming additives and meets Euro VI emissions requirements, while offering extended drain intervals.

Customer benefits

- Designed for improved fuel economy performance while helping maintain robust component wear protection and engine service life
- Formulated for good performance in a wide range of engines, and helps reduce inventories, costs, and the risk of misapplication
- Low viscosity synthetic base oils offer rapid circulation in cold and sub-zero engine start-ups
- Extended drain formulation combines synthetic base stocks and additives to promote wear, oxidation, sludge and thickening control
- Offers reliable Diesel Particulate Filter (DPF) clogging protection and helps reduce cleaning while improving DPF service life



Product highlights

- **Designed for fuel economy and engine service life**
- **Helps reduce inventories and misapplication**
- **Offers protection in sub-zero engine starts**
- **Extended drain formulation**
- **Promotes DPF protection and service life**

Selected specification standards include:

ACEA	API
Caterpillar	Cummins
DAF	Detroit Diesel
Deutz	Ford
JASO	Mack
MAN	Mercedes Benz
MTU	Renault Trucks
Scania	Volvo

Applications

- Delo 400 XSP-SD SAE 5W-30 is a high performance engine oil recommended for four-stroke naturally aspirated and turbocharged diesel engines.
- Delo 400 XSP-SD SAE 5W-30 is recommended for diesel engines meeting Euro I - Euro V and the latest Euro VI emissions requirements where allowed by the OEMs and is suitable for use in engines with global after treatment systems.
- Delo 400 XSP-SD SAE 5W-30 is recommended for use in older engines as well as today's most modern low emission designs. It is formulated for high performance with many fuels including low sulphur and ultra-low sulphur diesel fuels, and many biofuel formulations.

Approvals, performance and recommendations

Approvals

- Cummins CES 20086
- Detroit Diesel DFS 93K222
- Deutz DQC IV-18 LA
DQC TTCD°
- Mack EOS-4.5
- MAN M3677
M3691 (approval request submitted)
- Mercedes Benz MB-Approval 228.51
MB-Approval MB 228.52
- MTU Oil Category 3.1
- Renault Trucks RLD-3
- Scania LDF-4
- Volvo VDS-4.5

Performance

- ACEA E6, E7, E9
- API CK-4, CJ-4, CI-4 Plus, CI-4, CH-4
SN, SM, SL, SJ
- JASO DH-2
- Caterpillar ECF-3
- DAF Extended drain (Euro IV to VI)*
- Ford WSS-M2C213-A1
- Mack EO-O Premium Plus, EO-N,
EO-M Plus, EO-M
- MAN M3477**, M3271-1**
- Mercedes Benz MB 228.31
- Renault Trucks RLD-2, RLD, RXD, RGD
- Volvo VDS-4, VDS-3
- Scania Low Ash

Suitable for use

Delo 400 XSP-SD SAE 5W-30 is suitable for use in applications requiring:

- Iveco 18-1804 TLS E6***
- Liebherr LH-00-ENG LA
- Renault Trucks RD-2, RD
- Volvo VDS-2, VDS

° Product approved for DQC IV-18 LA are also approved for use in Deutz TTCD engines

* Can be used in Euro IV & Euro V MX engines and in Euro VI MX & PX engines for DAF

** These product claims are obsolete by MAN and no approvals can be obtained, applications that require these claims can be fulfilled by MAN M3677 approved products

*** Check equipment/vehicle manual to ensure that the drain interval of oil is aligned with S content in the fuel used in the engine

Typical test data		
Test	Test Methods	Results
Viscosity Grade		5W-30
Shelf Life: 60 months from date of filling indicated on the product label		
Density at 15°C, kg/l	ASTM D4052	0.858
Kinematic viscosity at 40°C, mm ² /s	ASTM D445	73
Kinematic viscosity at 100°C, mm ² /s	ASTM D445	12.2
Viscosity Index	ASTM D2270	164
Pour point, °C	ASTM D97	-42
Flash point COC, °C	ASTM D92	231
Total Base Number, mg KOH/g	ASTM D2896	9.5
Sulphated Ash, %wt	ASTM D874	0.9

The typical test data set out above does not constitute a specification. It is indicative only and can be affected by allowable production tolerances. Chevron may modify this test data. Modified data will supersede all previous data, so please ensure you refer to the latest version of this Product Data Sheet (PDS).

Disclaimer: Data provided in this Product Data Sheet (PDS) is based on standard tests under laboratory conditions and is indicative only. This product should not be used for any purpose other than those expressly set out in this PDS. The user has sole responsibility for verifying that this product is suitable for the user's intended application. Neither Chevron nor its subsidiaries (i) make any warranty or representation as to the accuracy or completeness of this PDS; and/or (ii) accept liability for any loss or damage suffered as a result of the use of this product other than in accordance with the terms of this PDS.

When disposing of used product, take care to protect the environment and follow local legislation.

Safety Data Sheets (SDS's) are available for all Chevron products. If you require a SDS or any further information regarding a Chevron product, please contact your local sales office or see www.texacolubricants.com.

Always confirm that the product selected is consistent with the original equipment manufacturer's recommendation for the equipment operating conditions and customer's maintenance practices.

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