

TECHNICAL PRODUCT SHEET

EVO VDS

10W—30, 10W—40, 15W—40



DESCRIPTION

EVO VDS is a top tier series of midSAPS HDDEO. The series has been engineered to satisfy the strict requirements of new generation diesel engines with particulate filters and other after-treatment systems. It is manufactured with extremely high quality and thermal stability, severely hydrotreated base oils and TriboACT[®] Formula, which enable the product to offer excellent overall protection to the engine and turbocharger unit. EVO VDS SAE 10W-40 has been designed to protect and complement expensive engine components, to provide for normal to extended drain intervals and confidence to a number of OEMs who acknowledge its performance level and quality by issuing approvals to its name.

APPLICATIONS

EVO VDS is suitable for all types of diesel engines of Euro IV/V/VI, US EPA 2007/2010 generation and on-/off-highway, stage IIIB and Tier IV heavy duty units that require performance levels defined as by API CK-4/CJ-4/SM and ACEA E11 or E7 or/and operate with diesel fuel running on low sulfur fuel (<15ppm). It is a versatile, midSAPS SHPD engine oil that is equally suitable for older generation engines (Euro II or Euro III) that run on higher sulfur fuels (up to 500 ppm).

SPECIFICATIONS

ACEA	E11	DTRF	15C100 (Approved 15W-40) (ex. MB 228.31)
ACEA	E9	MTU	Cat. 2.1
ACEA	E7	VOLVO	VDS-4.5 (Approved)
API	CK-4 (Approved)	RENAULT TRUCKS	RLD-3 (Approved)
API	CI-4 Plus (Approved)	MACK	EO-S-4.5 (Approved)
API	CJ-4	MACK	EO-PP
API	CI-4	VOLVO	VDS-4
API	CH-4	CUMMINS	CES 20086
API	SP	CUMMINS	CES 20087
API	SN (Approved for 15W-40)	CUMMINS	CES 20100
Detroit Diesel	DFS 93K222/93K2223	DEUTZ	DQC III-18 LA
MAN	3775	DEUTZ	DQC III-10 LA
MAN	3575	JASO	DH-2
CATERPILLAR	ECF-3	ALLISON	TES 439
CATERPILLAR	ECF-2	FORD	WSS-M2C171-F1
CATERPILLAR	ECF-1a	CHINA	D1

PROPERTIES

Engineered with TriboACT[®] Formula, based on unconventional base stock EVO VDS delivers excellent thermal stability, superior performance, and full compatibility with exhaust after-treatment technologies, ensuring reliability, efficiency, and protection under extreme operating conditions.



TECHNICAL PRODUCT SHEET

BENEFITS

EVO VDS delivers superior soot wear protection and elevated turbocharger reliability, while reducing oil consumption across a wide temperature range. It ensures full engine performance down to -33°C, supports extended drain intervals, and features a low-ash formula safeguarding exhaust after-treatment systems and environment.

PHYSICAL-CHEMICAL CHARACTERISTICS

EVO VDS	METHOD	SAE 15W-40	SAE 10W-40	SAE 10W-30
Density at 15°C, g/cm ³	ASTM D4052	0.872	0.865	0.864
Dynamic Viscosity, °C /cP	ASTM D5293	-20°C/6,250	-25°C/6,450	-25°C/6,450
Viscosity, Kinematic (cSt) 100°C	ASTM D445	14.9	14.5	11.9
Viscosity, Kinematic (cSt) 40°C	ASTM D445	109.1	95.7	81,6
Viscosity index	ASTM D2270	136	159	140
TBN, mgKOH/g	ASTM D2896	10	10	10
Flash point, COC, °C	ASTM D92	236	232	228
Pour point, °C	ASTM D97	-30	-33	-33
HTHS, cp	CEC-L-36-A-90		≥3.5	

The above mentioned characteristics represent mean values.

STORAGE

All packages must be stored in covered, well-ventilated areas. If outdoor storage cannot be avoided, barrels must be placed horizontally to prevent water ingress and to protect labels and markings from damage. Products must not be stored at temperatures above 60 °C and must not be exposed to direct sunlight, freezing conditions, or extreme temperature fluctuations.



HEALTH & SAFETY

This product is not considered to pose significant risks to health or safety when used as intended and in accordance with recommended personal hygiene practices. It must not be applied for purposes other than those for which it has been formulated. For detailed guidance on safe handling and use, refer to the Safety Data Sheet (SDS).



USED OILS

Used lubricants must be collected at designated collection points to prevent environmental contamination. They must not be mixed with solvents, brake fluids, or antifreeze.

