

**MAINTENANCE
INFORMATION**

MI18-02A

DATE :	April 2018	SECTION :	24 LUBRICATION
SUBJECT :	ENGINE OIL & FILTER CHANGE INTERVALS - VOLVO D13 ENGINE, FROM US10		

Revision: A

Updated for OBD20 engines

November 20 2020

APPLICATION

Model	VIN
H3-41, H3-45 coaches Model Year : 2011 up	From 2PCH33496 <u>BC711721</u>
X3-45 coaches X3-45 VIP commercial use XLII-45 Entertainer Model Year : 2011 up	From 2PCG33491 <u>BC735002</u>

VDS-5 OIL

The Volvo VDS-5 oil quality has been developed for D13N OBD20 engines and designed for modern high-output, low-emission engines with Exhaust Gas Recirculation (EGR), Selective Catalytic Reduction (SCR) and an after-treatment system Diesel Particulate Filter (DPF), giving better protection against oxidization, high temperature viscosity reduction, sludge build up and providing excellent low temperature circulation properties.

SAE 5W-30 is specifically developed to improve fuel economy, provide excellent wear protection and ensure optimal engine life. The new Volvo VDS-5 SAE 5W-30 specification will deliver 0.5% fuel economy improvements.

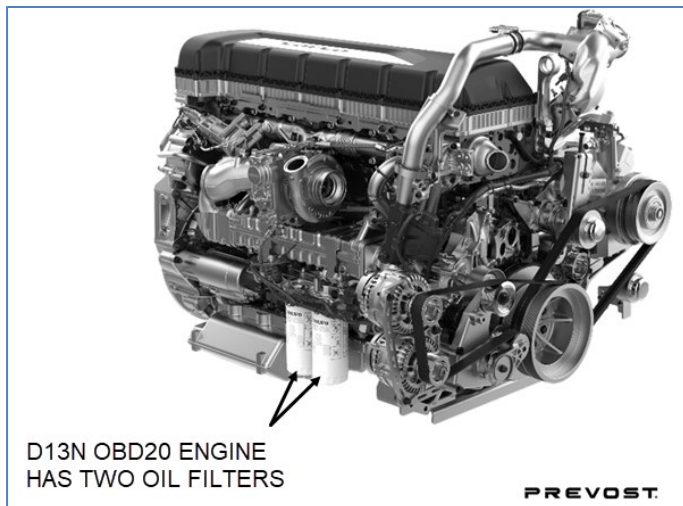
VDS-5 oil is only allowed for use in the most recent D13N OBD20 engines and is not backwards compatible with any other engine. VDS-5 has a lower viscosity, which results in lower oil pressure. If VDS-5 is used in older engines, the oil pressure may become too low under some driving conditions.

VDS-5 is not an exclusive requirement; all engines, including the D13N OBD20 can use VDS-4.5.

VDS-5 oil exceeds API service category FA-4.

Identification

How can you visually see the difference between the old engines and the new D13N OBD20 engine? Look at the oil filters. The D13N OBD20 has two oil filters – whereas previous versions had three.



VDS-4.5 OIL

The Volvo VDS-4.5 oil quality has been developed for US2017/GHG17 engines. It has improved oxidation and thermal stability compared to VDS-4 (API CJ-4).

Compared to older American Petroleum Institute (API) CJ-4 engine oils, Volvo VDS-4.5 delivers:

- better wear protection
- higher oxidation resistance
- better high-temperature viscosity control.

These oils exceed API service category CK-4 and are fully backwards compatible and can be used for all previous engine generations.

Due to the improved performance of Volvo VDS-4.5 specification motor oils, engine oil drains have been extended for US10 generation engines and newer generations in comparison with VDS-4 specification motor oil drains.

OIL VISCOSITY

In summary, all past and present engines can use 15W-40 or 10W-30 engine oil.

5W-30 oil can only be used on the 2-oil filter D13N OBD20. 5W-30 cannot ever go into a 3-oil filter engine.

Oil Type Compatibility

D13F - US07

D13H - US10

D13J - US14

D13M - US17

D13N - OBD20

15W-40 – CJ-4 (VDS-4)

10W-30 – CJ-4 (VDS-4)

15W-40 – CK-4 (VDS-4.5)

10W-30 – CK-4 (VDS-4.5)

5W-30 VDS-5



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OPERATING CONDITION

Use the information that follows to determine the operating condition and usage applicable to your vehicle

<p>Heavy Between 5 and 6 mpg Between 39 and 50 L/100 km</p>	<p>Normal Greater than 6 mpg Less than 39 L/100 km</p>
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Engine oil and filter change intervals ¹ – US10 engines and newer		Lubricants
<ul style="list-style-type: none"> - H3 & X3 series coaches - XLII Entertainer - H3 VIP commercial use - X3 VIP commercial use 		
Regular drains	Heavy operating condition, change every 35 000mi / 60 000km / 1 000 hours	Filled with VDS-4 specification oils approved by Volvo
	Normal operating condition, change every 45 000mi / 75 000km / 1 300 hours	
Extended drains I	Heavy operating condition, change every 40 000mi / 65 000km / 1 200 hours	Filled with VDS-4.5 or VDS-5 specification oils approved by Volvo
	Normal operating condition, change every 55 000mi / 90 000km / 1 600 hours	
Extended drains II	Heavy operating condition, change every 45 000mi / 70 000km / 1 300 hours	Filled with “VOLVO PREMIUM MOTOR OIL VDS-4.5” or “VOLVO PREMIUM MOTOR OIL VDS-5”
	Normal operating condition, change every 60 000mi / 95 000km / 1 700 hours	

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¹ Not applicable to X3-45 Commuter & Private Use motorhomes