



MAINTENANCE INFORMATION

MI18-02B

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

Revision: B Updated for current engine. VDS-4 oil removed from Oil Type Compatibility & Oil and Filter Change Intervals table

November 1 2023

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 is recommended for D13N OBD20 and newer 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. Volvo VDS-5 SAE 5W-30 specification delivers 0.5% fuel economy improvements.

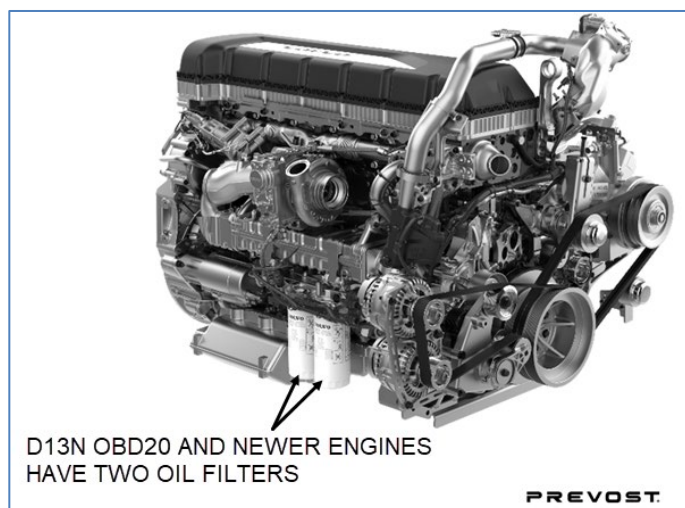
VDS-5 oil is only allowed for use in the D13N OBD20 and newer engines and is not backwards compatible with any other engine. VDS-5 has a lower viscosity, which results in lower oil pressure. If VDS-5 is used in older engines, the oil pressure may become too low under some driving conditions.

VDS-5 is not an exclusive requirement; all engines can also 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 newer engines? Look at the oil filters. The D13N OBD20 and newer engines have 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 and newer engines. **5W-30 cannot ever go into a 3-oil filter engine.**

Oil Type Compatibility

D13F - US07

D13H - US10

D13J - US14

D13M - US17

D13N - OBD20 and newer

15W-40 CK-4 (VDS-4.5)

10W-30 CK-4 (VDS-4.5)

5W-30 (VDS-5)



Prevost Technical Institute™

PREVOST.

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>
--	---

<p>Engine oil and filter change intervals¹ – US10 engines and newer</p> <ul style="list-style-type: none"> - H3 & X3 series coaches - XLII Entertainer - H3 VIP commercial use - X3 VIP commercial use 		<p>Lubricants</p>
<p>Extended drains I</p>	<p>Heavy operating condition, change every 40 000 mi / 65 000 km / 1 200 hours</p> <hr/> <p>Normal operating condition, change every 55 000 mi / 90 000 km / 1 600 hours</p>	<p>Filled with VDS-4.5 or VDS-5 specification oils approved by Volvo</p>
<p>Extended drains II</p>	<p>Heavy operating condition, change every 45 000 mi / 70 000 km / 1 300 hours</p> <hr/> <p>Normal operating condition, change every 60 000 mi / 95 000 km / 1 700 hours</p>	<p>Filled with “VOLVO PREMIUM MOTOR OIL VDS-4.5” or “VOLVO PREMIUM MOTOR OIL VDS-5”</p>

Access all our Service Bulletins on <http://techpub.prevostcar.com/en/>
Or scan the QR-Code with your smart phone

Are you a Vehicle owner?
E-mail us at technicalpublications_prev@volvo.com and type “ADD” in the subject to
receive warranty bulletins applicable to your vehicle(s) by e-mail.



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