

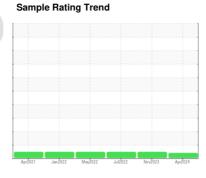
OIL ANALYSIS REPORT



Machine Id **VOLVO EC350E 310647**

Component **Diesel Engine**

VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (--- GAL)





Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Fuel content negligible. No other contaminants were detected in the oil.

Fluid Condition

The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Sample Number Client Info ML0000693 VCP411813 VCP338140 Sample Date Client Info 18 Apr 2024 17 Nov 2023 30 Jul 2022 Machine Age hrs Client Info 500 0 0 0 O O O O O O							
Client Info	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 4946 4390 3873 Oil Age hrs Client Info 500 0 0 Oil Oil Changed Client Info Changed Changed NA Sample Status Method Imitibase Current Inistory1 history2 Water WC Method >0.1 NEG NEG NEG NEG WEAR METALS method Imitibase current history1 history2 Iron ppm ASTM D5185m >100 4 6 2 Chromium ppm ASTM D5185m >10 0 <1 0 Nickel ppm ASTM D5185m >10 0 <1 0 Alluminum ppm ASTM D5185m >20 0 0 <1 Lead ppm ASTM D5185m >20 0 0 <1 1 Lead ppm ASTM D5185m >10 0 <1 <1	Sample Number		Client Info		ML0000693	VCP411813	VCP338140
Oil Age hrs Client Info 500 0 0 Oil Changed Sample Status Client Info Changed Changed N/A NORMAL N/A NORMAL NORMAL <t< td=""><td>Sample Date</td><td></td><td>Client Info</td><td></td><th>18 Apr 2024</th><td>17 Nov 2023</td><td>30 Jul 2022</td></t<>	Sample Date		Client Info		18 Apr 2024	17 Nov 2023	30 Jul 2022
Contamed Client Info Changed ATTENTION NORMAL NORMAL	Machine Age	hrs	Client Info		4946	4390	3873
ATTENTION NORMAL NORMAL	Oil Age	hrs	Client Info		500	0	0
CONTAMINATION method limit/base current history1 history2 Water WC Method >0.1 NEG NEG NEG Glycol WC Method NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >100 4 6 2 Chromium ppm ASTM D5185m >10 0 0 0 Nickel ppm ASTM D5185m >10 0 <1	Oil Changed		Client Info		Changed	Changed	N/A
Water WC Method >0.1 NEG NEG NEG Glycol WC Method Imitibase current history1 history2 WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >100 4 6 2 Chromium ppm ASTM D5185m >10 0 0 0 Nickel ppm ASTM D5185m >10 0 <1 0 Silver ppm ASTM D5185m >10 <1 1 1 Silver ppm ASTM D5185m >20 0 0 <1 1 Silver ppm ASTM D5185m >20 0 0 <1 1 Copper ppm ASTM D5185m >10 0 <1 <1 <1 Tin ppm ASTM D5185m >10 0 <1 <1 <1 <1 <1 <1 <1 <1 <td>Sample Status</td> <td></td> <td></td> <td></td> <th>ATTENTION</th> <td>NORMAL</td> <td>NORMAL</td>	Sample Status				ATTENTION	NORMAL	NORMAL
Glycol WC Method NEG NEG NEG WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >100 4 6 2 Chromium ppm ASTM D5185m >10 0 0 0 Nickel ppm ASTM D5185m >10 0 <1	CONTAMINATION	V	method	limit/base	current	history1	history2
WEAR METALS method limit/base current history1 history2 Iron ppm ASTM D5185m >100 4 6 2 Chromium ppm ASTM D5185m >10 0 0 0 Nickel ppm ASTM D5185m >10 0 <1	Water		WC Method	>0.1	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
Chromium ppm ASTM D5185m >10 0 0 0 Nickel ppm ASTM D5185m >10 0 <1	WEAR METALS		method	limit/base	current	history1	history2
Chromium ppm ASTM D5185m >10 0 0 0 Nickel ppm ASTM D5185m >10 0 <1	Iron	mag	ASTM D5185m	>100	4	6	2
Nickel							
Titanium					-		
Silver				710			
Aluminum				~2			
Lead							
Copper ppm ASTM D5185m >15 1 5 5 Tin ppm ASTM D5185m >10 0 <1							
Tin							
Vanadium ppm ASTM D5185m 0 0 <1 Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 2.5 55 29 67 Barium ppm ASTM D5185m 0.0 2 0 0 Molybdenum ppm ASTM D5185m 0.0 2 0 0 Manganese ppm ASTM D5185m 0.0 0 <1 <1 Magnesium ppm ASTM D5185m 20.0 0 <1 <1 Magnesium ppm ASTM D5185m 20.57 1275 1277 1550 Phosphorus ppm ASTM D5185m 20.57 1275 1277 1550 Phosphorus ppm ASTM D5185m 1028 651 881 Sulfur ppm ASTM D5185m 123 1233 888 10	• •						
Cadmium ppm ASTM D5185m 0 0 0 ADDITIVES method limit/base current history1 history2 Boron ppm ASTM D5185m 2.5 55 29 67 Barium ppm ASTM D5185m 0.0 2 0 0 Molybdenum ppm ASTM D5185m 0.7 77 51 36 Manganese ppm ASTM D5185m 0.0 0 <1 <1 Magnesium ppm ASTM D5185m 0.0 0 <1 <1 Magnesium ppm ASTM D5185m 2057 1275 1277 1550 Phosphorus ppm ASTM D5185m 2057 1275 1277 1550 Phosphorus ppm ASTM D5185m 1028 651 881 Zinc ppm ASTM D5185m 1223 1233 888 1081 Sulfur ppm ASTM D5185m >20 4 5				>10			
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Molybdenum ppm ASTM D5185m 0.7 77 51 36 Manganese ppm ASTM D5185m 0.0 0 <1 <1 Magnesium ppm ASTM D5185m 256 862 683 455 Calcium ppm ASTM D5185m 2057 1275 1277 1550 Phosphorus ppm ASTM D5185m 935 1028 651 881 Zinc ppm ASTM D5185m 1223 1233 888 1081 Sulfur ppm ASTM D5185m 4079 3724 2474 2806 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 4 5 5 Sodium ppm ASTM D5185m >20 0 2 2 Fuel % ASTM D5185m >20 0 2 2 Fuel % ASTM D3524 >6.0	ADDITIVES		method	ilmit/base	current	nistory i	HIStory2
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Magnesium ppm ASTM D5185m 256 862 683 455 Calcium ppm ASTM D5185m 2057 1275 1277 1550 Phosphorus ppm ASTM D5185m 935 1028 651 881 Zinc ppm ASTM D5185m 1223 1233 888 1081 Sulfur ppm ASTM D5185m 4079 3724 2474 2806 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 4 5 5 Sodium ppm ASTM D5185m >20 4 5 5 Sodium ppm ASTM D5185m >20 0 2 2 Fuel % ASTM D5185m >20 0 2 2 Fuel % ASTM D5185m >20 0 2 2 Fuel	Boron		ASTM D5185m	2.5	55	29	67
Calcium ppm ASTM D5185m 2057 1275 1277 1550 Phosphorus ppm ASTM D5185m 935 1028 651 881 Zinc ppm ASTM D5185m 1223 1233 888 1081 Sulfur ppm ASTM D5185m 4079 3724 2474 2806 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 4 5 5 Sodium ppm ASTM D5185m >20 0 2 2 Fuel % ASTM D5185m >20 0 2 2 Fuel % ASTM D5185m >20 0 2 2 Fuel % ASTM D3524 >6.0 1.6 <1.0	Boron Barium	ppm	ASTM D5185m ASTM D5185m	2.5 0.0	55 2	29 0	67 0
Phosphorus ppm ASTM D5185m 935 1028 651 881 Zinc ppm ASTM D5185m 1223 1233 888 1081 Sulfur ppm ASTM D5185m 4079 3724 2474 2806 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 4 5 5 Sodium ppm ASTM D5185m >20 0 2 2 Fuel % ASTM D3524 >6.0 1.6 <1.0	Boron Barium Molybdenum	ppm	ASTM D5185m ASTM D5185m ASTM D5185m	2.5 0.0 0.7	55 2 77	29 0 51	67 0 36
Zinc ppm ASTM D5185m 1223 1233 888 1081 Sulfur ppm ASTM D5185m 4079 3724 2474 2806 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 4 5 5 Sodium ppm ASTM D5185m >20 0 2 2 Fuel % ASTM D3524 >6.0 1.6 <1.0	Boron Barium Molybdenum Manganese	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2.5 0.0 0.7 0.0	55 2 77 0	29 0 51 <1	67 0 36 <1
Sulfur ppm ASTM D5185m 4079 3724 2474 2806 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 4 5 5 Sodium ppm ASTM D5185m >20 0 2 2 Foul % ASTM D5185m >20 0 2 2 Fuel % ASTM D5185m >20 0 2 2 Soot % % ASTM D7844 >3 0.1 0.1 0.1 Nitration Abs/.1mm *ASTM D7624 >20 7.8 9.9 5.5 Sulfation Abs/.1mm *ASTM D7415 >30 18.2 20.	Boron Barium Molybdenum Manganese Magnesium	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2.5 0.0 0.7 0.0 256	55 2 77 0 862	29 0 51 <1 683	67 0 36 <1 455
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185m >20 4 5 5 Sodium ppm ASTM D5185m <1	Boron Barium Molybdenum Manganese Magnesium Calcium	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2.5 0.0 0.7 0.0 256 2057	55 2 77 0 862 1275	29 0 51 <1 683 1277	67 0 36 <1 455 1550
Silicon ppm ASTM D5185m >20 4 5 5 Sodium ppm ASTM D5185m <1 <1 3 Potassium ppm ASTM D5185m >20 0 2 2 Fuel % ASTM D3524 >6.0 1.6 <1.0 <1.0 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.1 0.1 0.1 Nitration Abs/cm *ASTM D7624 >20 7.8 9.9 5.5 Sulfation Abs/.1mm *ASTM D7415 >30 18.2 20.7 22.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.9 19.4 19.4	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2.5 0.0 0.7 0.0 256 2057 935	55 2 77 0 862 1275 1028	29 0 51 <1 683 1277 651	67 0 36 <1 455 1550 881
Sodium ppm ASTM D5185m <1 <1 3 Potassium ppm ASTM D5185m >20 0 2 2 Fuel % ASTM D3524 >6.0 1.6 <1.0 <1.0 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.1 0.1 0.1 Nitration Abs/cm *ASTM D7624 >20 7.8 9.9 5.5 Sulfation Abs/.1mm *ASTM D7415 >30 18.2 20.7 22.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.9 19.4 19.4	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2.5 0.0 0.7 0.0 256 2057 935 1223	55 2 77 0 862 1275 1028 1233	29 0 51 <1 683 1277 651 888	67 0 36 <1 455 1550 881 1081
Potassium ppm ASTM D5185m >20 0 2 2 Fuel % ASTM D3524 >6.0 1.6 <1.0 <1.0 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.1 0.1 0.1 Nitration Abs/cm *ASTM D7624 >20 7.8 9.9 5.5 Sulfation Abs/.1mm *ASTM D7415 >30 18.2 20.7 22.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.9 19.4 19.4	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	2.5 0.0 0.7 0.0 256 2057 935 1223 4079	55 2 77 0 862 1275 1028 1233 3724	29 0 51 <1 683 1277 651 888 2474	67 0 36 <1 455 1550 881 1081 2806
Fuel % ASTM D3524 >6.0 1.6 <1.0 <1.0 INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.1 0.1 0.1 Nitration Abs/cm *ASTM D7624 >20 7.8 9.9 5.5 Sulfation Abs/.1mm *ASTM D7415 >30 18.2 20.7 22.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.9 19.4 19.4	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	2.5 0.0 0.7 0.0 256 2057 935 1223 4079 limit/base	55 2 77 0 862 1275 1028 1233 3724 current	29 0 51 <1 683 1277 651 888 2474 history1	67 0 36 <1 455 1550 881 1081 2806 history2
INFRA-RED method limit/base current history1 history2 Soot % % *ASTM D7844 >3 0.1 0.1 0.1 Nitration Abs/cm *ASTM D7624 >20 7.8 9.9 5.5 Sulfation Abs/.1mm *ASTM D7415 >30 18.2 20.7 22.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.9 19.4 19.4	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur	ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	2.5 0.0 0.7 0.0 256 2057 935 1223 4079 limit/base	55 2 77 0 862 1275 1028 1233 3724 current	29 0 51 <1 683 1277 651 888 2474 history1	67 0 36 <1 455 1550 881 1081 2806 history2
Soot % % *ASTM D7844 >3 0.1 0.1 0.1 Nitration Abs/cm *ASTM D7624 >20 7.8 9.9 5.5 Sulfation Abs/.1mm *ASTM D7415 >30 18.2 20.7 22.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.9 19.4 19.4	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	2.5 0.0 0.7 0.0 256 2057 935 1223 4079 limit/base	55 2 77 0 862 1275 1028 1233 3724 current 4 <1	29 0 51 <1 683 1277 651 888 2474 history1 5 <1	67 0 36 <1 455 1550 881 1081 2806 history2 5
Nitration Abs/cm *ASTM D7624 >20 7.8 9.9 5.5 Sulfation Abs/.1mm *ASTM D7415 >30 18.2 20.7 22.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.9 19.4 19.4	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	2.5 0.0 0.7 0.0 256 2057 935 1223 4079 limit/base >20	55 2 77 0 862 1275 1028 1233 3724 current 4 <1	29 0 51 <1 683 1277 651 888 2474 history1 5 <1	67 0 36 <1 455 1550 881 1081 2806 history2 5 3
Sulfation Abs/.1mm *ASTM D7415 >30 18.2 20.7 22.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.9 19.4 19.4	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	2.5 0.0 0.7 0.0 256 2057 935 1223 4079 limit/base >20 >6.0	55 2 77 0 862 1275 1028 1233 3724 current 4 <1 0 1.6	29 0 51 <1 683 1277 651 888 2474 history1 5 <1 2 <1.0	67 0 36 <1 455 1550 881 1081 2806 history2 5 3 2 <1.0
Sulfation Abs/.1mm *ASTM D7415 >30 18.2 20.7 22.4 FLUID DEGRADATION method limit/base current history1 history2 Oxidation Abs/.1mm *ASTM D7414 >25 13.9 19.4 19.4	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	2.5 0.0 0.7 0.0 256 2057 935 1223 4079 limit/base >20 >6.0	55 2 77 0 862 1275 1028 1233 3724 current 4 <1 0 1.6 current	29 0 51 <1 683 1277 651 888 2474 history1 5 <1 2 <1.0 history1	67 0 36 <1 455 1550 881 1081 2806 history2 5 3 2 <1.0
Oxidation	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot %	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m	2.5 0.0 0.7 0.0 256 2057 935 1223 4079 limit/base >20 >6.0 limit/base	55 2 77 0 862 1275 1028 1233 3724 current 4 <1 0 1.6 current 0.1	29 0 51 <1 683 1277 651 888 2474 history1 5 <1 2 <1.0 history1 0.1	67 0 36 <1 455 1550 881 1081 2806 history2 5 3 2 <1.0 history2 0.1
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7844 *ASTM D7844	2.5 0.0 0.7 0.0 256 2057 935 1223 4079 limit/base >20 >6.0 limit/base >3 >20	55 2 77 0 862 1275 1028 1233 3724 current 4 <1 0 1.6 current 0.1 7.8	29 0 51 <1 683 1277 651 888 2474 history1 5 <1 2 <1.0 history1 0.1 9.9	67 0 36 <1 455 1550 881 1081 2806 history2 5 3 2 <1.0 history2 0.1 5.5
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm ppm ppm ppm ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D7844 *ASTM D7624 *ASTM D76145	2.5 0.0 0.7 0.0 256 2057 935 1223 4079 limit/base >20 >6.0 limit/base >3 >20 >3	55 2 77 0 862 1275 1028 1233 3724 current 4 <1 0 1.6 current 0.1 7.8 18.2	29 0 51 <1 683 1277 651 888 2474 history1 5 <1 2 <1.0 history1 0.1 9.9 20.7	67 0 36 <1 455 1550 881 1081 2806 history2 5 3 2 <1.0 history2 0.1 5.5 22.4
	Boron Barium Molybdenum Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium Fuel INFRA-RED Soot % Nitration Sulfation	ppm	ASTM D5185m ASTM D7844 *ASTM D7844 *ASTM D7624 *ASTM D7624 *ASTM D7415 method	2.5 0.0 0.7 0.0 256 2057 935 1223 4079 limit/base >20 >6.0 limit/base >3 >20 >30 limit/base	55 2 77 0 862 1275 1028 1233 3724 current 4 <1 0 1.6 current 0.1 7.8 18.2 current	29 0 51 <1 683 1277 651 888 2474 history1 5 <1 2 <1.0 history1 0.1 9.9 20.7 history1	67 0 36 <1 455 1550 881 1081 2806 history2 5 3 2 <1.0 history2 0.1 5.5 22.4 history2



OIL ANALYSIS REPORT







Sample No.

: ML0000693 Lab Number : 06160056

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Unique Number : 10995479

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

Diagnosed

Nov17/23

Jul30/22

: 25 Apr 2024 : 29 Apr 2024 : 29 Apr 2024 - Sean Felton

0.0

Contact: DANNY BARRINGTON

MCCLUNG-LOGAN EQUIPMENT CO - WISE PO BOX 1158 WISE, VA US 24293

dbarrington@mcclung-logan.com

Certificate 12367

Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN) To discuss this sample report, contact Customer Service at 1-800-237-1369.

 st - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Contact/Location: DANNY BARRINGTON - VOLVO8881

May12/22

T:

F: