



# VOLVO

## OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Area  
**[WIRE TRACK(?) RECYCL]**

Machine Id  
**VOLVO EC300 310153**

Component  
**Diesel Engine**

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

### RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VCP447452</b>	VCP429180	VCP376631
Sample Date		Client Info		<b>21 Mar 2024</b>	04 Oct 2023	01 Aug 2022
Machine Age	hrs	Client Info		<b>5877</b>	5303	3343
Oil Age	hrs	Client Info		<b>0</b>	0	1500
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>100	<b>10</b>	24	11
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>10	<b>3</b>	4	3
Lead	ppm	ASTM D5185m	>20	<b>&lt;1</b>	8	<1
Copper	ppm	ASTM D5185m	>15	<b>1</b>	3	2
Tin	ppm	ASTM D5185m	>10	<b>1</b>	3	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

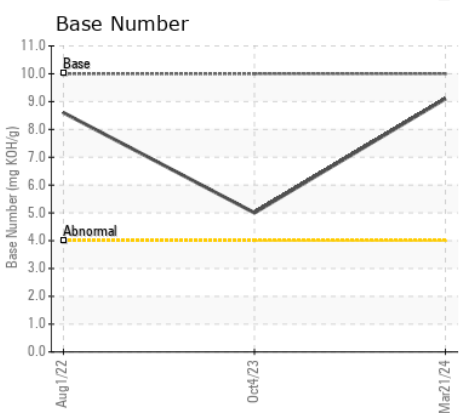
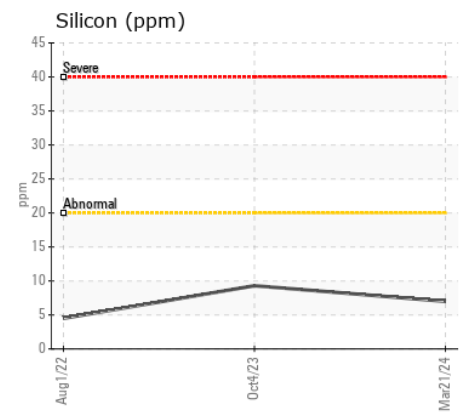
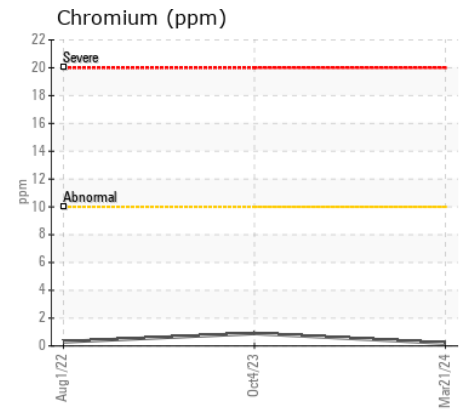
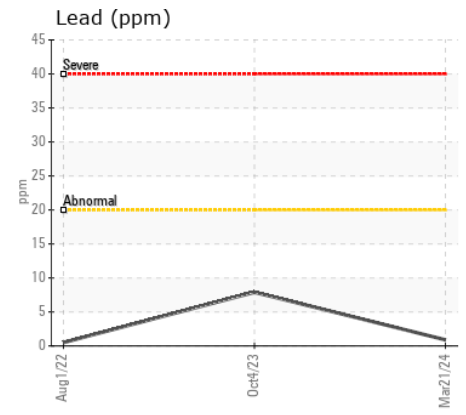
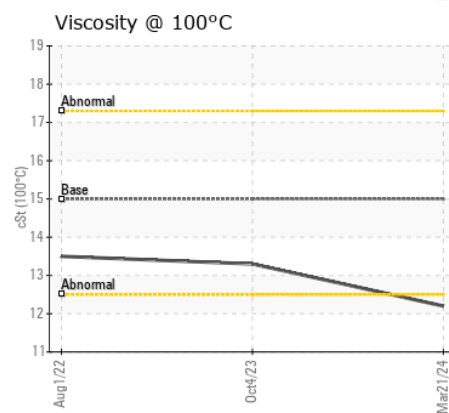
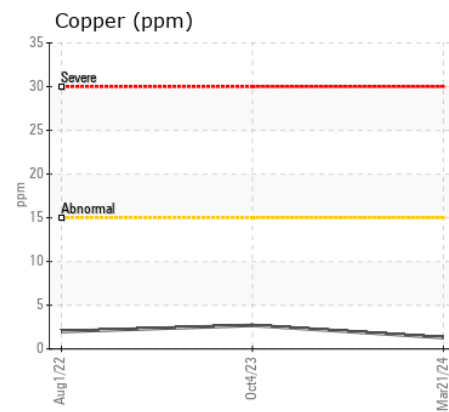
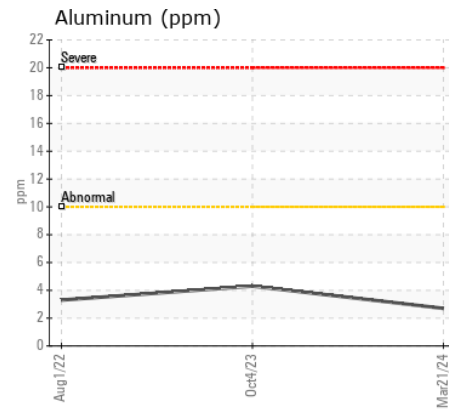
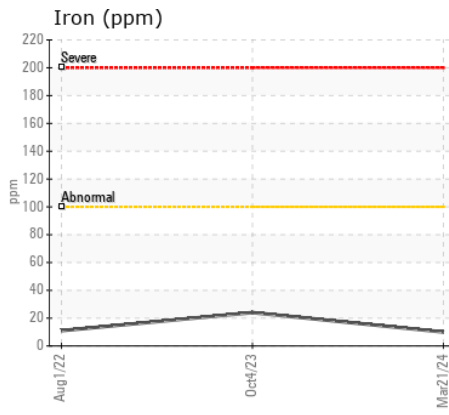
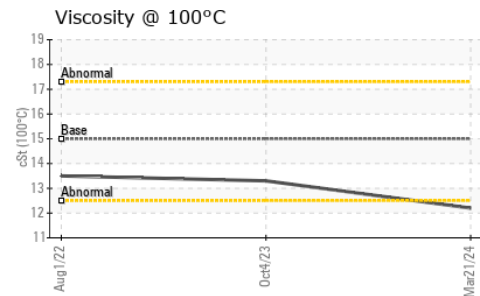
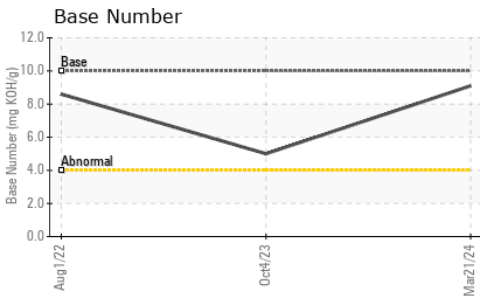
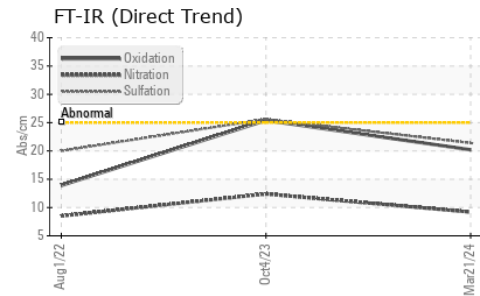
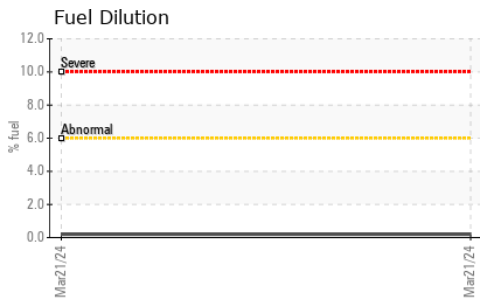
Fuel content negligible. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>7</b>	9	4
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	2	3
Fuel	%	ASTM D3524	>6.0	<b>0.2</b>	<1.0	<1.0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Glycol		WC Method		<b>NEG</b>	NEG	NEG
Soot %	%	*ASTM D7844	>3	<b>0.1</b>	0.2	0.1
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.2</b>	12.4	8.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>21.4</b>	25.6	20.0
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>2</b>	3	1
Boron	ppm	ASTM D5185m	2.5	<b>28</b>	11	59
Barium	ppm	ASTM D5185m	0.0	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	0.7	<b>36</b>	44	29
Manganese	ppm	ASTM D5185m	0.0	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	256	<b>459</b>	578	437
Calcium	ppm	ASTM D5185m	2057	<b>2036</b>	1977	1711
Phosphorus	ppm	ASTM D5185m	935	<b>1018</b>	1007	872
Zinc	ppm	ASTM D5185m	1223	<b>1227</b>	1350	1057
Sulfur	ppm	ASTM D5185m	4079	<b>3486</b>	3133	3792
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>20.2</b>	25.4	13.9
Base Number (BN)	mg KOH/g	ASTM D2896	10	<b>9.1</b>	5.0	8.6
Visc @ 100°C	cSt	ASTM D445	15.0	<b>12.2</b>	13.3	13.5



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP447452 **Received** : 22 May 2024  
**Lab Number** : 06187251 **Tested** : 28 May 2024  
**Unique Number** : 11044003 **Diagnosed** : 28 May 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: FuelDilution, PercentFuel, TBN )

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To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - 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)