



# VOLVO

## OIL ANALYSIS REPORT

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



Area

**[TUCKER PAVING]**

Machine Id

**VOLVO L110H 631211**

Component

**Diesel Engine**

Fluid

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

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VCP443608</b>	VCP395988	VCP300220
Sample Date		Client Info		<b>25 Apr 2024</b>	22 Feb 2023	06 Sep 2022
Machine Age	hrs	Client Info		<b>10678</b>	9606	8781
Oil Age	hrs	Client Info		<b>0</b>	500	500
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>20</b>	15	15
Chromium	ppm	ASTM D5185m	>10	<b>1</b>	<1	1
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>10	<b>8</b>	7	10
Lead	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	1
Copper	ppm	ASTM D5185m	>15	<b>2</b>	1	2
Tin	ppm	ASTM D5185m	>10	<b>1</b>	<1	1
Vanadium	ppm	ASTM D5185m		<b>0</b>	<1	1
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

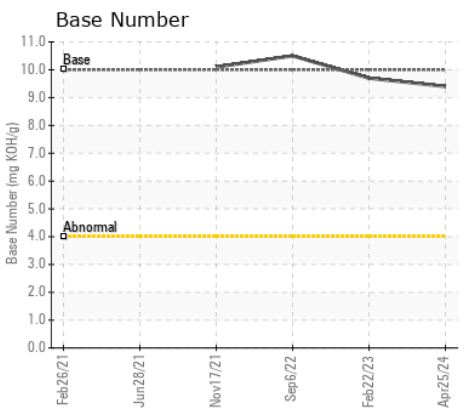
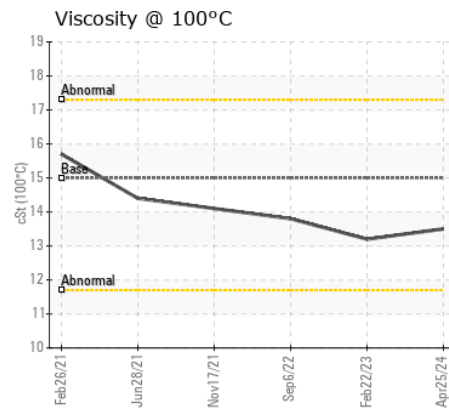
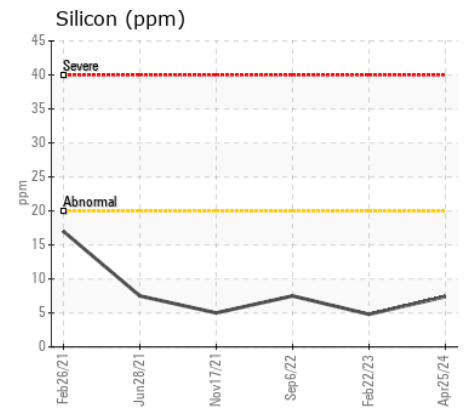
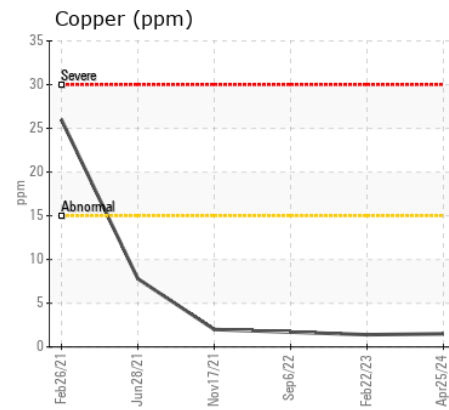
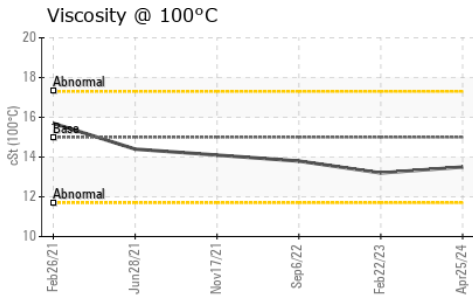
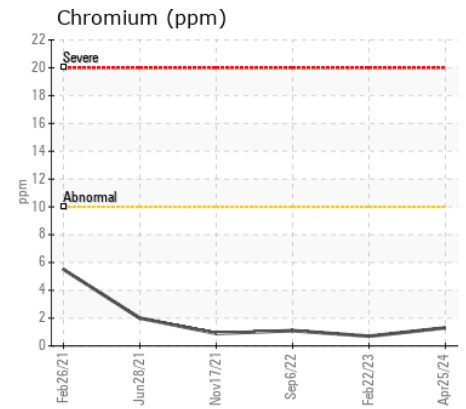
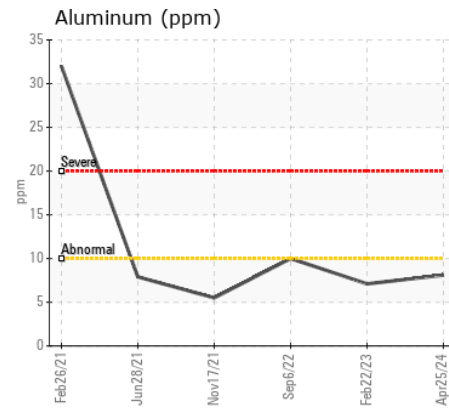
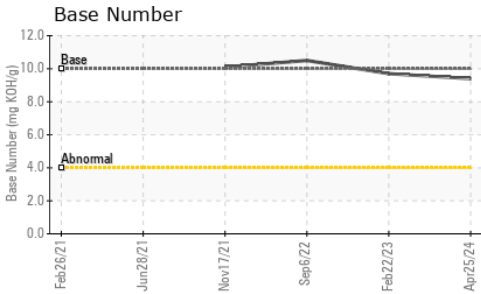
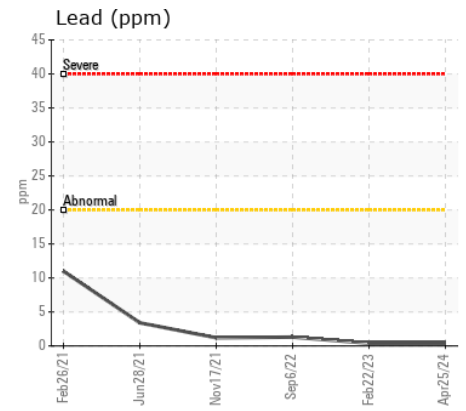
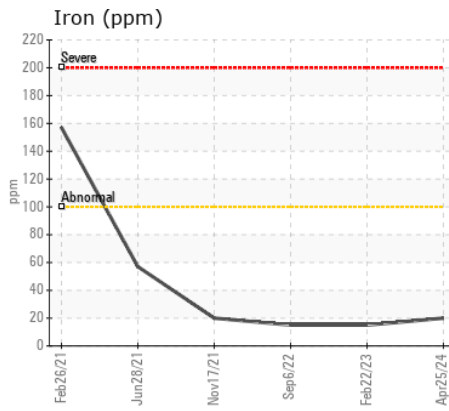
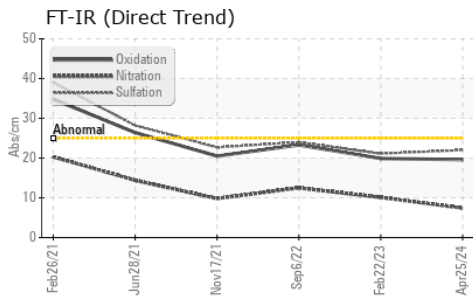
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>7</b>	5	8
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	2	<1
Fuel		WC Method	>6.0	<b>&lt;1.0</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>0.3</b>	0.6	0.8
Nitration	Abs/cm	*ASTM D7624	>20	<b>7.4</b>	10.1	12.5
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.0</b>	21.1	24.0
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>1</b>	<1	3
Boron	ppm	ASTM D5185m	2.5	<b>20</b>	11	7
Barium	ppm	ASTM D5185m	0.0	<b>1</b>	2	0
Molybdenum	ppm	ASTM D5185m	0.7	<b>47</b>	47	42
Manganese	ppm	ASTM D5185m	0.0	<b>&lt;1</b>	<1	1
Magnesium	ppm	ASTM D5185m	256	<b>580</b>	483	548
Calcium	ppm	ASTM D5185m	2057	<b>1524</b>	1684	1723
Phosphorus	ppm	ASTM D5185m	935	<b>1008</b>	931	986
Zinc	ppm	ASTM D5185m	1223	<b>1137</b>	1130	1186
Sulfur	ppm	ASTM D5185m	4079	<b>3022</b>	2822	3222
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>19.6</b>	19.9	23.3
Base Number (BN)	mg KOH/g	ASTM D2896	10	<b>9.4</b>	9.7	10.5
Visc @ 100°C	cSt	ASTM D445	15.0	<b>13.5</b>	13.2	13.8



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP443608 **Received** : 30 May 2024  
**Lab Number** : 06194953 **Tested** : 31 May 2024  
**Unique Number** : 11057076 **Diagnosed** : 31 May 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: 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)