



# VOLVO

## OIL ANALYSIS REPORT

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



Area  
**[8-388971]**

Machine Id  
**16-8116**

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>VCP394228</b>	VCP353408	VCP380442
Sample Date		Client Info		<b>20 Dec 2023</b>	01 Nov 2023	24 Jul 2023
Machine Age	hrs	Client Info		<b>3022</b>	2642	1930
Oil Age	hrs	Client Info		<b>500</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	N/A	Changed
Filter Changed		Client Info		<b>N/A</b>	N/A	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>62</b>	46	59
Chromium	ppm	ASTM D5185(m)	>10	<b>2</b>	1	2
Nickel	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>10	<b>5</b>	4	6
Lead	ppm	ASTM D5185(m)	>20	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185(m)	>15	<b>2</b>	1	3
Tin	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0

### CONTAMINATION

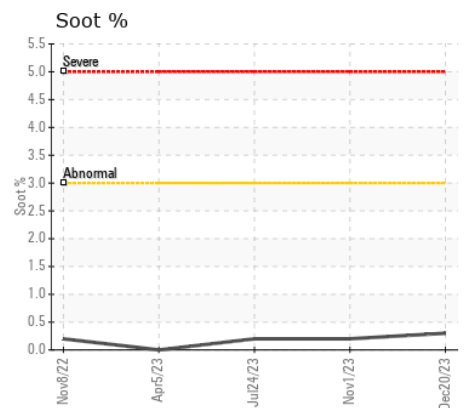
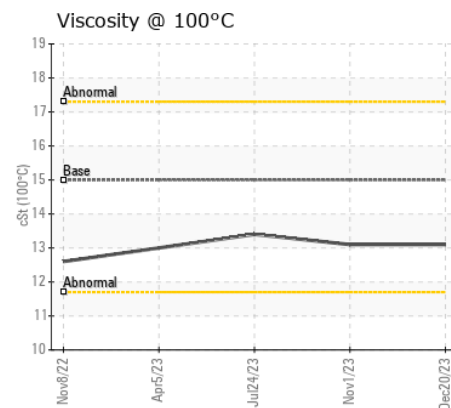
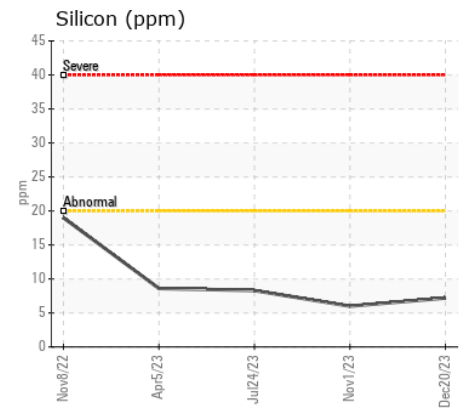
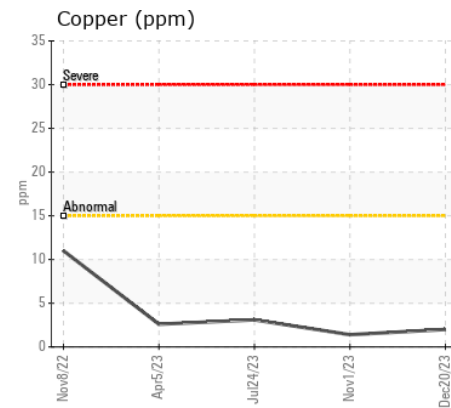
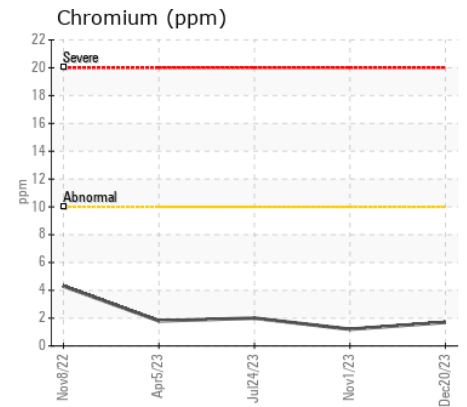
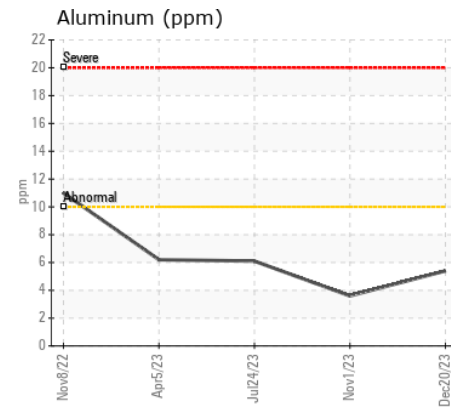
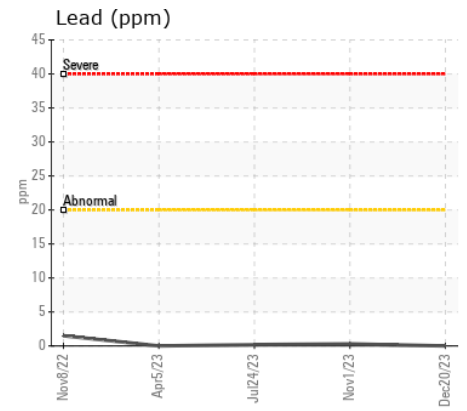
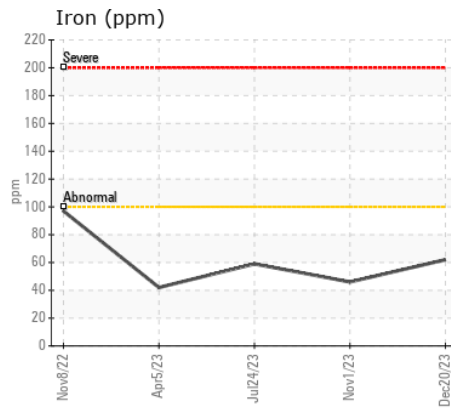
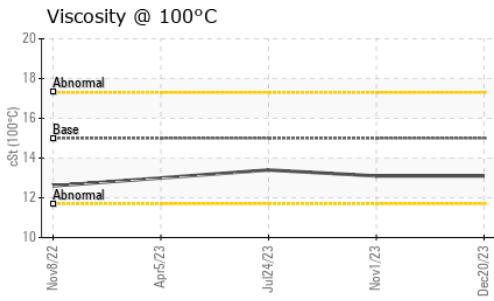
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	<b>7</b>	6	8
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	0	<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>	0.2	0.2
Nitration	Abs/cm	ASTM D7624*	>20	<b>9.2</b>	7.4	8.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>22.6</b>	22.5	22.2
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>3</b>	3	3
Boron	ppm	ASTM D5185(m)	2.5	<b>21</b>	27	25
Barium	ppm	ASTM D5185(m)	0.0	<b>0</b>	<1	<1
Molybdenum	ppm	ASTM D5185(m)	0.7	<b>41</b>	41	42
Manganese	ppm	ASTM D5185(m)	0.0	<b>&lt;1</b>	<1	1
Magnesium	ppm	ASTM D5185(m)	256	<b>512</b>	511	556
Calcium	ppm	ASTM D5185(m)	2057	<b>1752</b>	1722	1617
Phosphorus	ppm	ASTM D5185(m)	935	<b>927</b>	923	966
Zinc	ppm	ASTM D5185(m)	1223	<b>1101</b>	1102	1097
Sulfur	ppm	ASTM D5185(m)	4079	<b>2489</b>	2385	2391
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>21.7</b>	20.4	19.5
Visc @ 100°C	cSt	ASTM D7279(m)	15.0	<b>13.1</b>	13.1	13.4



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : VCP394228 **Received** : 22 Jan 2024  
**Lab Number** : 02610206 **Diagnosed** : 22 Jan 2024  
**Unique Number** : 5711292 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1

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To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.

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F: