



# VOLVO

## OIL ANALYSIS REPORT

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



Area  
**CAVANAGH [389438]**  
Machine Id  
**VOLVO EC380E 314152**  
Component  
**Diesel Engine**  
Fluid  
**VOLVO ULTRA DIESEL ENGINE OIL SAE 10W30 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VCP430156</b>	VCP394478	VCP352614
Sample Date		Client Info		<b>14 Feb 2024</b>	12 Sep 2023	23 Apr 2023
Machine Age	hrs	Client Info		<b>6981</b>	6478	6002
Oil Age	hrs	Client Info		<b>1000</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Changed	Changed
Filter Changed		Client Info		<b>N/A</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>100	<b>6</b>	6	3
Chromium	ppm	ASTM D5185(m)	>10	<b>0</b>	<1	0
Nickel	ppm	ASTM D5185(m)	>10	<b>2</b>	2	<1
Titanium	ppm	ASTM D5185(m)		<b>6</b>	1	7
Silver	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>10	<b>2</b>	2	1
Lead	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185(m)	>15	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185(m)	>10	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	<1

### CONTAMINATION

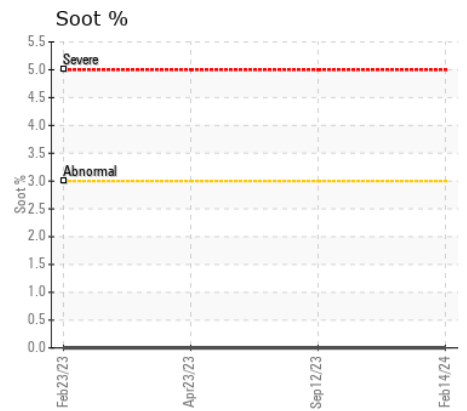
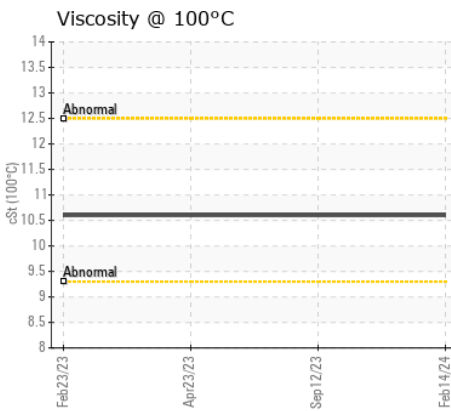
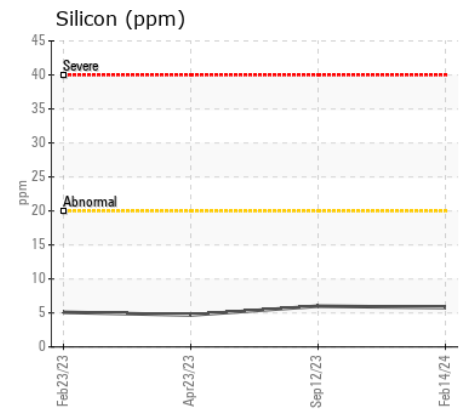
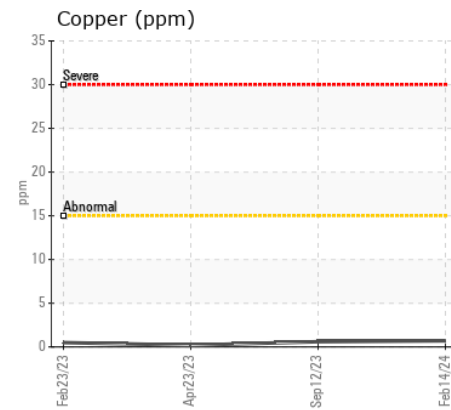
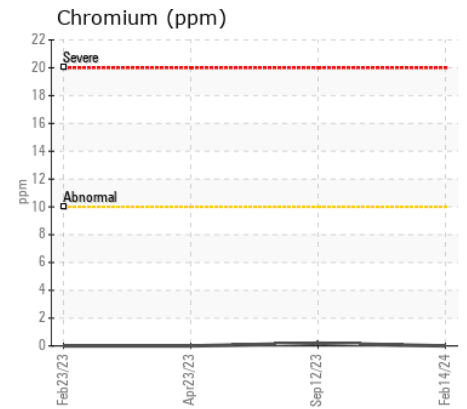
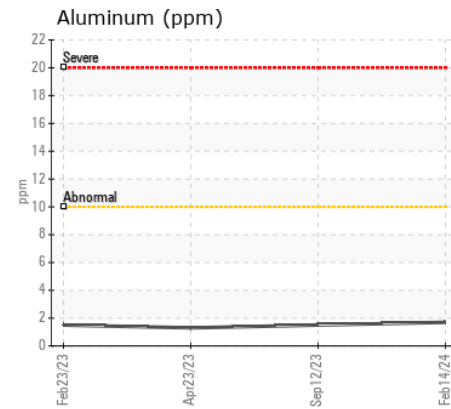
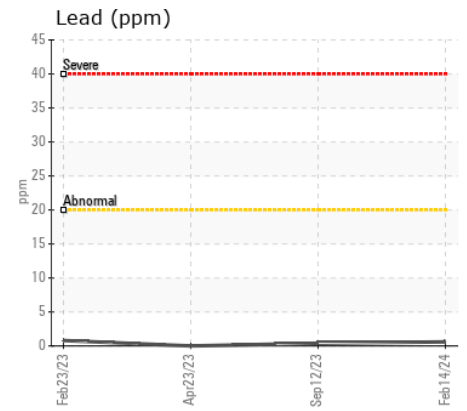
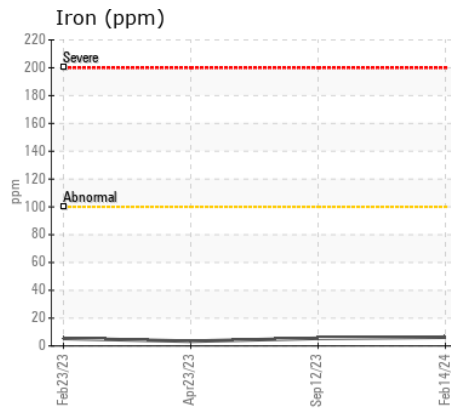
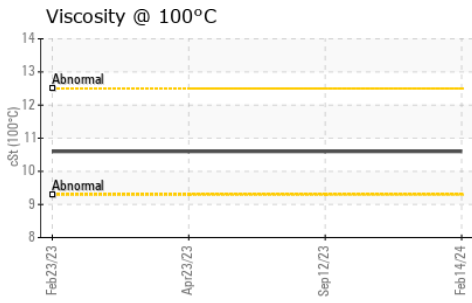
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185(m)	>20	<b>6</b>	6	5
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<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</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>8.6</b>	8.1	7.0
Sulfation	Abs/.1mm	ASTM D7415*	>30	<b>22.3</b>	22.7	21.9
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>2</b>	3	2
Boron	ppm	ASTM D5185(m)		<b>43</b>	34	54
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>37</b>	40	36
Manganese	ppm	ASTM D5185(m)		<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)		<b>495</b>	511	484
Calcium	ppm	ASTM D5185(m)		<b>1721</b>	1711	1808
Phosphorus	ppm	ASTM D5185(m)		<b>941</b>	985	1014
Zinc	ppm	ASTM D5185(m)		<b>1070</b>	1090	1082
Sulfur	ppm	ASTM D5185(m)		<b>2653</b>	2508	2699
Oxidation	Abs/.1mm	ASTM D7414*	>25	<b>21.3</b>	21.7	19.9
Visc @ 100°C	cSt	ASTM D7279(m)		<b>10.6</b>	10.6	10.6



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : VCP430156 **Received** : 27 Feb 2024  
**Lab Number** : 02618291 **Tested** : 27 Feb 2024  
**Unique Number** : 5735401 **Diagnosed** : 27 Feb 2024 - Wes Davis  
**Test Package** : MOB 1

**STRONGCO EQUIPMENT**  
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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.