



# VOLVO

## OIL ANALYSIS REPORT

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



Area  
**[392231]**  
 Machine Id  
**VOLVO L90B 61843**  
 Component  
**Transmission (Manual)**  
 Fluid  
**VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 (--- GAL)**

### RECOMMENDATION

The fluid change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VCP380417</b>	---	---
Sample Date		Client Info		<b>21 Feb 2024</b>	---	---
Machine Age	hrs	Client Info		<b>24721</b>	---	---
Oil Age	hrs	Client Info		<b>2000</b>	---	---
Filter Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed		Client Info		<b>Changed</b>	---	---
Filter Changed		Client Info		<b>Changed</b>	---	---
Sample Status				<b>SEVERE</b>	---	---

### WEAR

Lead ppm levels are severe. Clutch disc wear indicated.

Iron	ppm	ASTM D5185(m)	>200	<b>8</b>	---	---
Chromium	ppm	ASTM D5185(m)	>5	<b>0</b>	---	---
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	---	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Silver	ppm	ASTM D5185(m)	>7	<b>0</b>	---	---
Aluminum	ppm	ASTM D5185(m)	>25	<b>&lt;1</b>	---	---
Lead	ppm	ASTM D5185(m)	>45	<b>187</b>	---	---
Copper	ppm	ASTM D5185(m)	>225	<b>10</b>	---	---
Tin	ppm	ASTM D5185(m)	>10	<b>0</b>	---	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	---	---
White Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	---	---

### CONTAMINATION

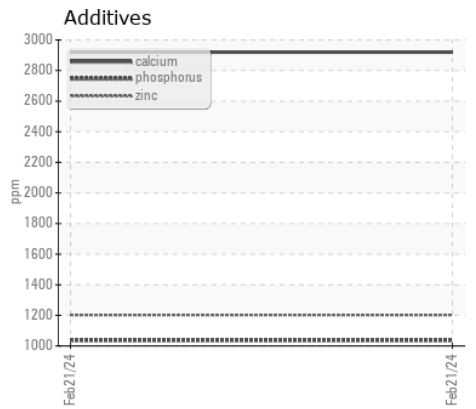
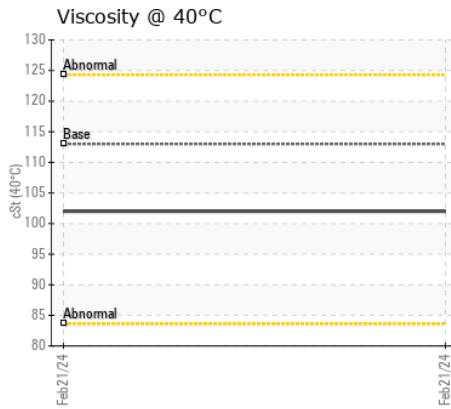
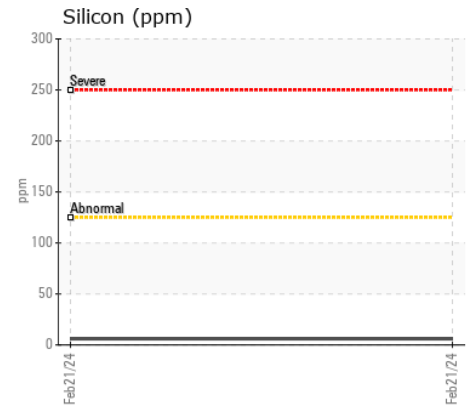
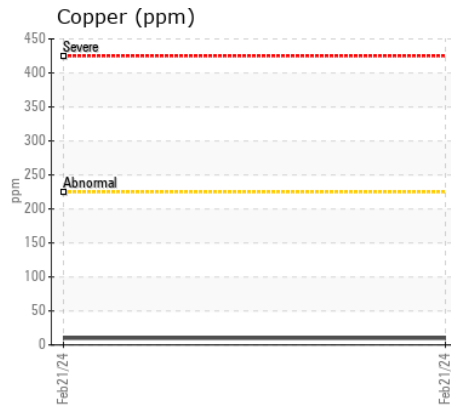
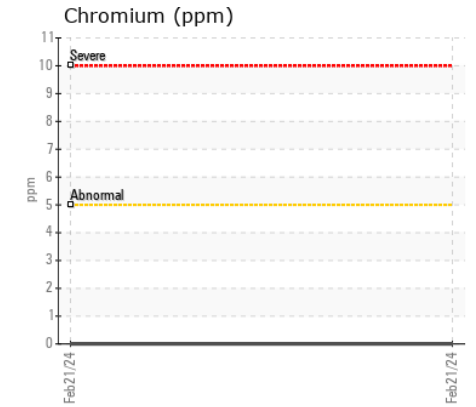
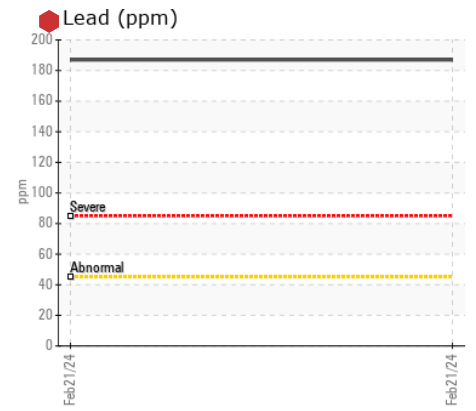
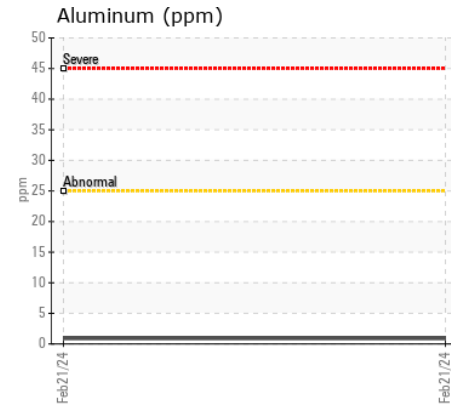
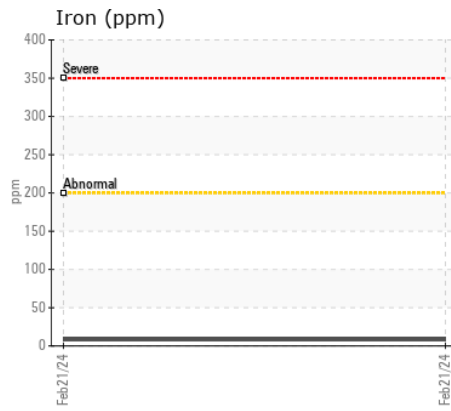
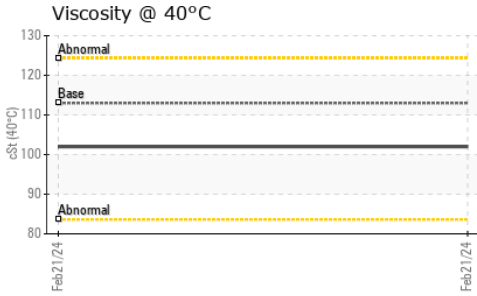
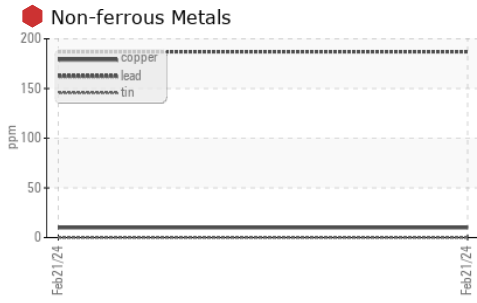
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185(m)	>125	<b>6</b>	---	---
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	---	---
Water		WC Method	>0.1	<b>NEG</b>	---	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	---	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	---	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	---	---

### FLUID CONDITION

The fluid is no longer serviceable as a result of the abnormal and/or severe wear.

Sodium	ppm	ASTM D5185(m)		<b>4</b>	---	---
Boron	ppm	ASTM D5185(m)	2.5	<b>72</b>	---	---
Barium	ppm	ASTM D5185(m)	0.0	<b>&lt;1</b>	---	---
Molybdenum	ppm	ASTM D5185(m)	0.7	<b>14</b>	---	---
Manganese	ppm	ASTM D5185(m)	0.0	<b>0</b>	---	---
Magnesium	ppm	ASTM D5185(m)	256	<b>131</b>	---	---
Calcium	ppm	ASTM D5185(m)	2057	<b>2920</b>	---	---
Phosphorus	ppm	ASTM D5185(m)	935	<b>1037</b>	---	---
Zinc	ppm	ASTM D5185(m)	1223	<b>1202</b>	---	---
Sulfur	ppm	ASTM D5185(m)	4079	<b>3040</b>	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	113	<b>102</b>	---	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : VCP380417  
**Lab Number** : 02617449  
**Unique Number** : 5734559  
**Test Package** : MOB 1

**Received** : 22 Feb 2024  
**Tested** : 23 Feb 2024  
**Diagnosed** : 23 Feb 2024 - Kevin Marson

**STRONGCO EQUIP (AB)**  
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 RED DEER COUNTY, AB  
 CA T4S 2L4  
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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.