

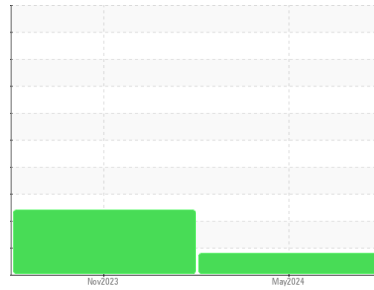


# OIL ANALYSIS REPORT



Area  
**[W/O 10852]**  
 Machine Id  
**VOLVO L110H 631861**  
 Component  
**Diesel Engine**  
 Fluid  
**CHEVRON 15W40 (5 GAL)**

Sample Rating Trend



## DIAGNOSIS

**Recommendation**  
 Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

**Wear**  
 The aluminum level is abnormal. All other component wear rates are normal.

**Contamination**  
 There is no indication of any contamination in the oil.

**Fluid Condition**  
 The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>ML0002161</b>	VCP388521	---
Sample Date	Client Info		<b>30 May 2024</b>	14 Nov 2023	---
Machine Age	hrs	Client Info	<b>3700</b>	2082	---
Oil Age	hrs	Client Info	<b>1618</b>	0	---
Oil Changed	Client Info		<b>Changed</b>	Changed	---
Sample Status			<b>ABNORMAL</b>	ABNORMAL	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>6.0	<b>&lt;1.0</b>	<1.0	---
Water	WC Method	>0.1	<b>NEG</b>	NEG	---
Glycol	WC Method		<b>NEG</b>	NEG	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >100	<b>17</b>	85	---
Chromium	ppm	ASTM D5185m >10	<b>&lt;1</b>	6	---
Nickel	ppm	ASTM D5185m >10	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m >2	<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185m >10	<b>▲ 14</b>	▲ 98	---
Lead	ppm	ASTM D5185m >20	<b>0</b>	10	---
Copper	ppm	ASTM D5185m >15	<b>3</b>	20	---
Tin	ppm	ASTM D5185m >10	<b>1</b>	4	---
Vanadium	ppm	ASTM D5185m	<b>0</b>	<1	---
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>18</b>	36	---
Barium	ppm	ASTM D5185m	<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m	<b>32</b>	56	---
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	2	---
Magnesium	ppm	ASTM D5185m	<b>423</b>	741	---
Calcium	ppm	ASTM D5185m	<b>1844</b>	1316	---
Phosphorus	ppm	ASTM D5185m	<b>971</b>	737	---
Zinc	ppm	ASTM D5185m	<b>1181</b>	962	---
Sulfur	ppm	ASTM D5185m	<b>3943</b>	2532	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	<b>14</b>	▲ 25	---
Sodium	ppm	ASTM D5185m >50	<b>&lt;1</b>	5	---
Potassium	ppm	ASTM D5185m >20	<b>0</b>	<1	---

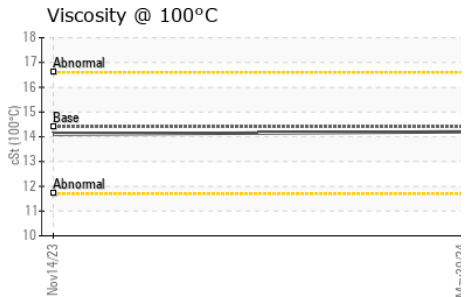
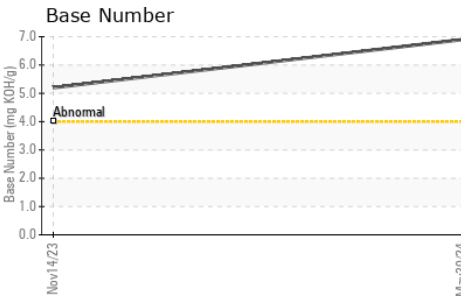
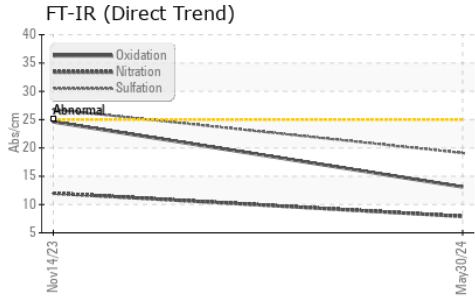
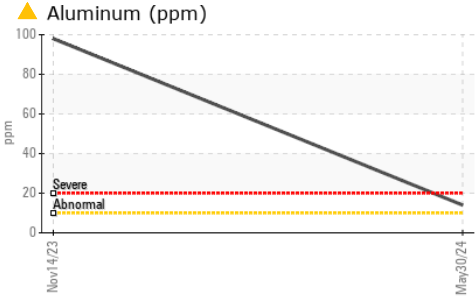
## INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.4</b>	1.3	---
Nitration	Abs/cm	*ASTM D7624 >20	<b>7.9</b>	12.0	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>19.1</b>	26.8	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>13.1</b>	24.6	---
Base Number (BN)	mg KOH/g	ASTM D2896	<b>6.9</b>	5.2	---

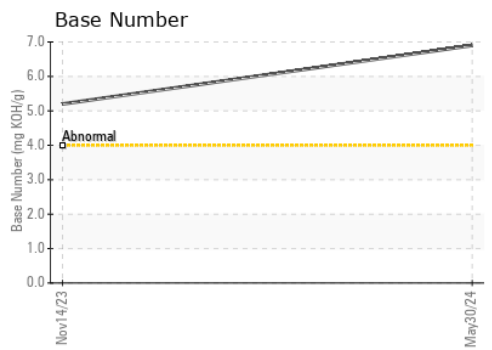
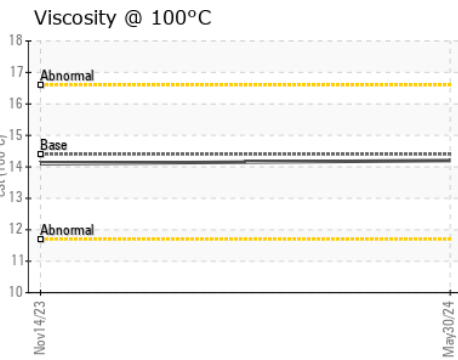
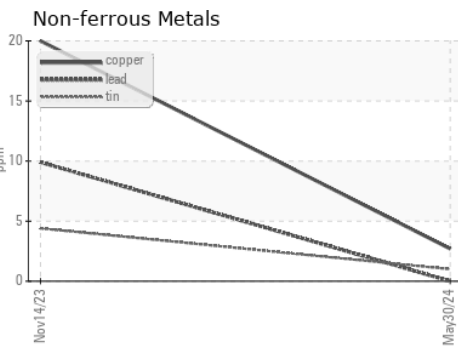
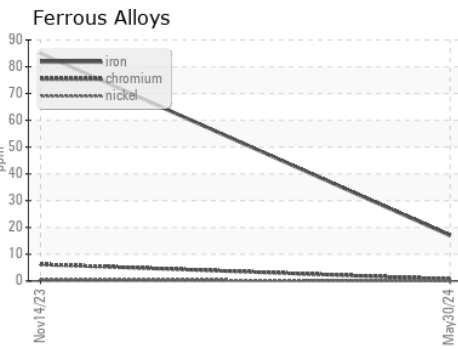
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	14.2	14.1

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ML0002161      **Received** : 07 Jun 2024  
**Lab Number** : 06202560      **Tested** : 11 Jun 2024  
**Unique Number** : 11070021      **Diagnosed** : 11 Jun 2024 - Sean Felton  
**Test Package** : CONST ( Additional Tests: TBN )

**RECYCLE 1**  
 4700 LAWRENCE ST  
 HYATTSVILLE, MD  
 US 20781

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)

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