



# ASCENDUM

## OIL ANALYSIS REPORT



Area  
**Ascendum Machinery**  
 Machine Id  
**VOLVO L110H 631866**  
 Component  
**Front Axle**  
 Fluid  
**VOLVO WB 102 (--- GAL)**

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

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>ASC0009540</b>	ASC0001845	ASC0000168
Sample Date		Client Info		<b>03 Jun 2024</b>	05 Mar 2024	10 Jul 2023
Machine Age	hrs	Client Info		<b>8452</b>	7756	6033
Oil Age	hrs	Client Info		<b>696</b>	1723	6033
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Chngd</b>	Changed	Changed
Filter Changed		Client Info		<b>None</b>	Changed	N/A
Sample Status				<b>NORMAL</b>	NORMAL	ABNORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>13</b>	16	▲ 696
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	11
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	3
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>30	<b>3</b>	1	3
Lead	ppm	ASTM D5185m	>50	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>120	<b>0</b>	0	<1
Tin	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

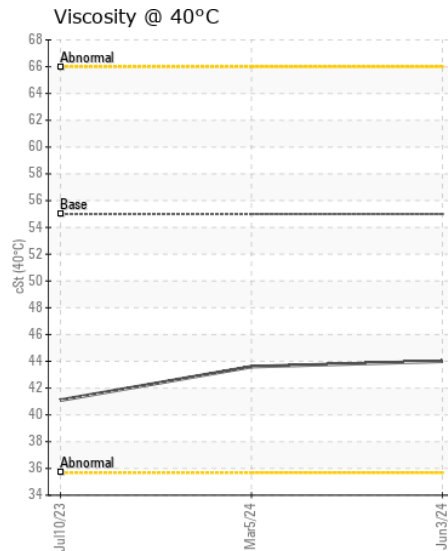
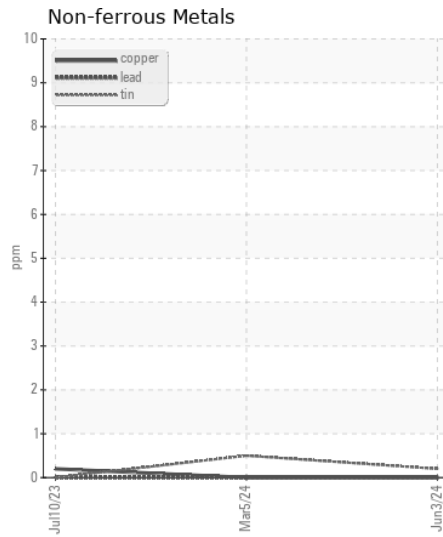
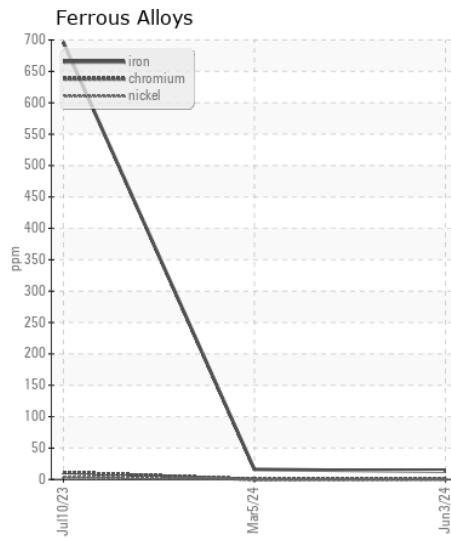
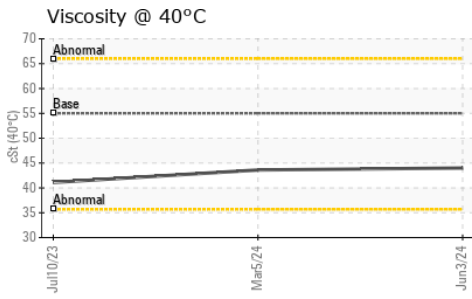
Moderate concentration of visible dirt/debris present in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>10</b>	11	18
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	<1	0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>MODER</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	>0.2	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>0</b>	<1	4
Boron	ppm	ASTM D5185m		<b>154</b>	115	111
Barium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	0	5
Manganese	ppm	ASTM D5185m		<b>0</b>	<1	10
Magnesium	ppm	ASTM D5185m		<b>16</b>	18	14
Calcium	ppm	ASTM D5185m		<b>4264</b>	3555	3587
Phosphorus	ppm	ASTM D5185m		<b>1308</b>	1273	1292
Zinc	ppm	ASTM D5185m		<b>1692</b>	1558	1552
Sulfur	ppm	ASTM D5185m		<b>4300</b>	3697	4294
Visc @ 40°C	cSt	ASTM D445	55	<b>44.0</b>	43.6	41.1



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ASC0009540  
**Lab Number** : 06210549  
**Unique Number** : 11083413  
**Test Package** : CONST

**Received** : 14 Jun 2024  
**Tested** : 17 Jun 2024  
**Diagnosed** : 17 Jun 2024 - Angela Borella

**ENDURANCE ENVIRONMENTAL SOLUTIONS LLC**  
 10275 WEST HIGGINS ROAD  
 ROSEMONT, IL  
 US 60018  
 Contact: Service Manager

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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F: