



# ASCENDUM

## OIL ANALYSIS REPORT

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



Machine Id  
**VOLVO L90H 626875**  
Component  
**Rear Axle**  
Fluid  
**VOLVO WB 102 (--- QTS)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>ASC0004478</b>	ASC0006457	---
Sample Date		Client Info		<b>06 May 2024</b>	23 Jan 2024	---
Machine Age	hrs	Client Info		<b>1822</b>	1056	---
Oil Age	hrs	Client Info		<b>1822</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	N/A	---
Filter Changed		Client Info		<b>N/A</b>	N/A	---
Sample Status				<b>NORMAL</b>	ABNORMAL	---

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>300	<b>23</b>	51	---
Chromium	ppm	ASTM D5185m	>10	<b>&lt;1</b>	2	---
Nickel	ppm	ASTM D5185m	>4	<b>0</b>	1	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m		<b>0</b>	<1	---
Aluminum	ppm	ASTM D5185m	>15	<b>1</b>	1	---
Lead	ppm	ASTM D5185m	>4	<b>1</b>	<1	---
Copper	ppm	ASTM D5185m	>200	<b>26</b>	171	---
Tin	ppm	ASTM D5185m	>15	<b>3</b>	▲ 19	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

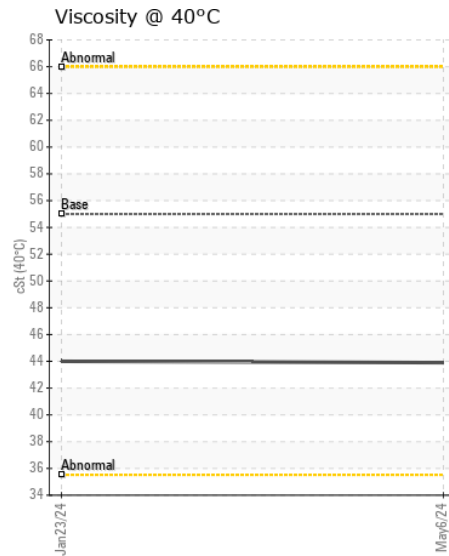
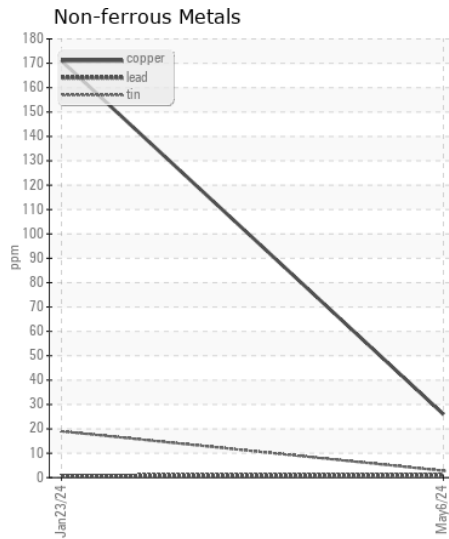
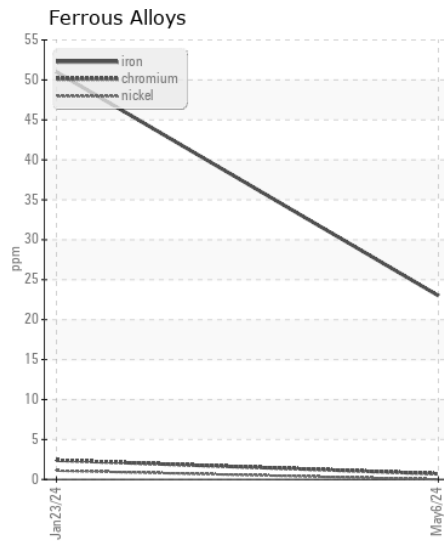
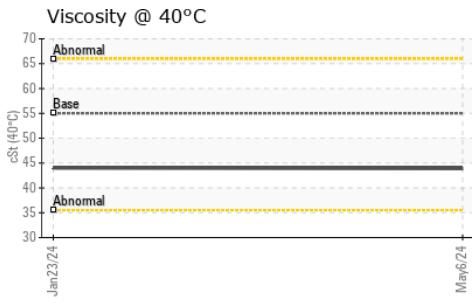
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>12</b>	18	---
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	2	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	---

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>1</b>	4	---
Boron	ppm	ASTM D5185m		<b>133</b>	131	---
Barium	ppm	ASTM D5185m		<b>0</b>	<1	---
Molybdenum	ppm	ASTM D5185m		<b>0</b>	<1	---
Manganese	ppm	ASTM D5185m		<b>2</b>	8	---
Magnesium	ppm	ASTM D5185m		<b>14</b>	16	---
Calcium	ppm	ASTM D5185m		<b>3940</b>	3541	---
Phosphorus	ppm	ASTM D5185m		<b>1314</b>	1090	---
Zinc	ppm	ASTM D5185m		<b>1608</b>	1417	---
Sulfur	ppm	ASTM D5185m		<b>4159</b>	3043	---
Visc @ 40°C	cSt	ASTM D445	55	<b>43.9</b>	44.0	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ASC0004478  
**Lab Number** : 06174293  
**Unique Number** : 11020346  
**Test Package** : CONST

**Received** : 09 May 2024  
**Tested** : 10 May 2024  
**Diagnosed** : 10 May 2024 - Wes Davis

**520 - ASCENDUM MACHINERY INC - KNOXVILLE**  
 5730 RUTLEDGE PIKE  
 KNOXVILLE, TN  
 US 37924

Contact: BRANDON GRANT  
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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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