



# ASCENDUM

## OIL ANALYSIS REPORT



Area  
**Ascendum Machinery**  
Machine Id  
**VOLVO L180H 5674**  
Component  
**Rear Axle**  
Fluid  
**VOLVO WB 102 (--- GAL)**

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

### RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>ASC0007625</b>	ASC0001519	---
Sample Date		Client Info		<b>18 Mar 2024</b>	03 Jan 2024	---
Machine Age	hrs	Client Info		<b>997</b>	615	---
Oil Age	hrs	Client Info		<b>997</b>	615	---
Filter Age	hrs	Client Info		<b>997</b>	0	---
Oil Changed		Client Info		<b>Not Changed</b>	Not Changed	---
Filter Changed		Client Info		<b>Changed</b>	Not Changed	---
Sample Status				<b>ABNORMAL</b>	NORMAL	---

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>52</b>	10	---
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	---
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	0	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>30	<b>6</b>	1	---
Lead	ppm	ASTM D5185m	>50	<b>0</b>	0	---
Copper	ppm	ASTM D5185m	>120	<b>2</b>	<1	---
Tin	ppm	ASTM D5185m	>20	<b>0</b>	<1	---
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

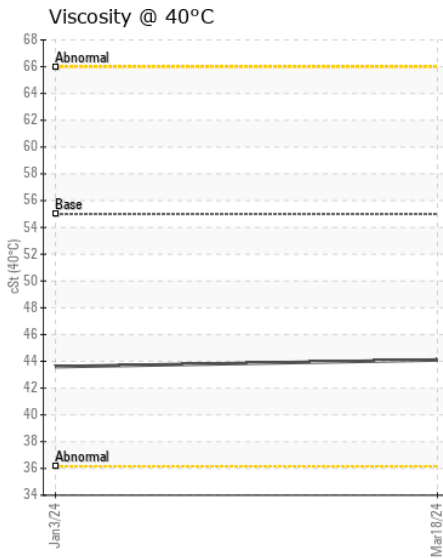
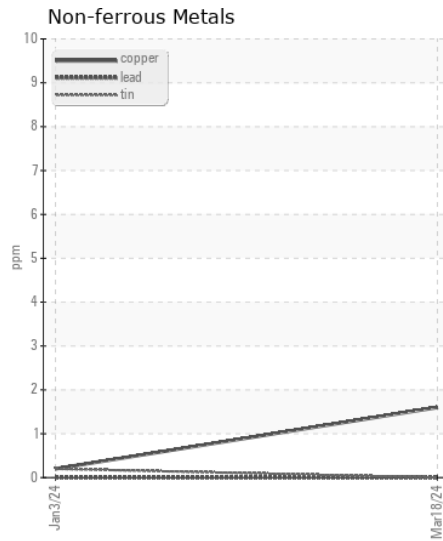
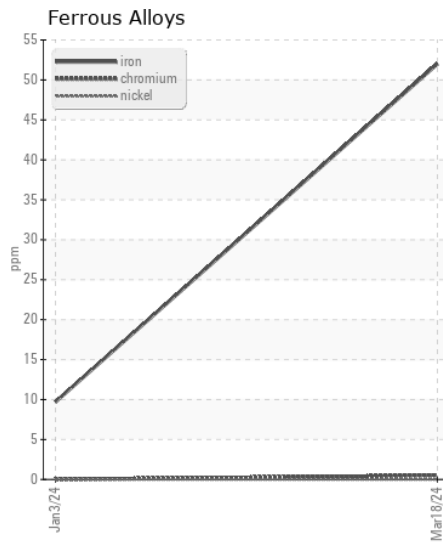
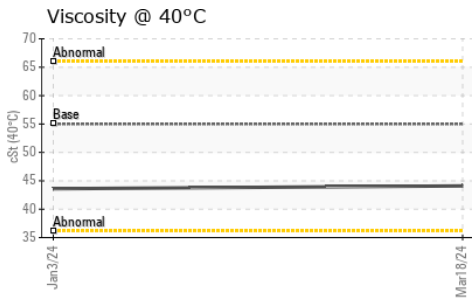
Moderate concentration of visible dirt/debris present in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>23</b>	11	---
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>▲ MODER</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>10</b>	2	---
Boron	ppm	ASTM D5185m		<b>120</b>	132	---
Barium	ppm	ASTM D5185m		<b>0</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>1</b>	0	---
Manganese	ppm	ASTM D5185m		<b>2</b>	<1	---
Magnesium	ppm	ASTM D5185m		<b>9</b>	25	---
Calcium	ppm	ASTM D5185m		<b>3781</b>	3890	---
Phosphorus	ppm	ASTM D5185m		<b>1306</b>	1285	---
Zinc	ppm	ASTM D5185m		<b>1553</b>	1566	---
Sulfur	ppm	ASTM D5185m		<b>4665</b>	3938	---
Visc @ 40°C	cSt	ASTM D445	55	<b>44.1</b>	43.6	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ASC0007625  
**Lab Number** : 06125212  
**Unique Number** : 10939363  
**Test Package** : CONST

**Received** : 21 Mar 2024  
**Tested** : 25 Mar 2024  
**Diagnosed** : 25 Mar 2024 - Don Baldrige

**METAL RECYCLING SERVICES - MONROE**  
P.O. BOX 812  
MONROE, NC  
US 28111  
Contact: RYAN BOWDEN

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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