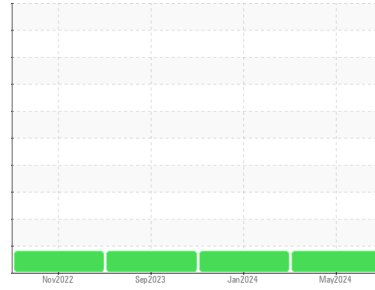




Area  
**Ascendum Machinery**  
 Machine Id  
**VOLVO A40G ED-01 (S/N 352172)**  
 Component  
**Brake Cooling System**  
 Fluid  
**VOLVO WB 102 (--- GAL)**



**DIAGNOSIS**

- Recommendation**  
No corrective action is recommended at this time. Resample at the next service interval to monitor.
- Wear**  
The copper level is abnormal. All other component wear rates are normal.
- Contamination**  
There is no indication of any contamination in the fluid.
- Fluid Condition**  
The condition of the fluid is acceptable for the time in service.

**SAMPLE INFORMATION**

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>ASC0009857</b>	ASC0007902	ASC0001242
Sample Date	Client Info		<b>13 May 2024</b>	30 Jan 2024	14 Sep 2023
Machine Age	hrs	Client Info	<b>5966</b>	5497	4994
Oil Age	hrs	Client Info	<b>4466</b>	4500	997
Oil Changed	Client Info		<b>Not Chngd</b>	Not Chngd	Not Chngd
Sample Status			<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

**CONTAMINATION**

	method	limit/base	current	history1	history2
Water	WC Method	>0.2	<b>NEG</b>	NEG	NEG

**WEAR METALS**

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >50	<b>19</b>	25	34
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m >10	<b>5</b>	5	5
Titanium	ppm	ASTM D5185m	<b>0</b>	<1	<1
Silver	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m >30	<b>&lt;1</b>	2	3
Lead	ppm	ASTM D5185m >50	<b>2</b>	<1	<1
Copper	ppm	ASTM D5185m >200	<b>▲ 264</b>	▲ 252	▲ 264
Tin	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	0
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0

**ADDITIVES**

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>132</b>	111	132
Barium	ppm	ASTM D5185m	<b>0</b>	0	2
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	1	1
Magnesium	ppm	ASTM D5185m	<b>4</b>	12	8
Calcium	ppm	ASTM D5185m	<b>3422</b>	3456	3481
Phosphorus	ppm	ASTM D5185m	<b>1273</b>	1291	1289
Zinc	ppm	ASTM D5185m	<b>1456</b>	1505	1544
Sulfur	ppm	ASTM D5185m	<b>4601</b>	4108	4657

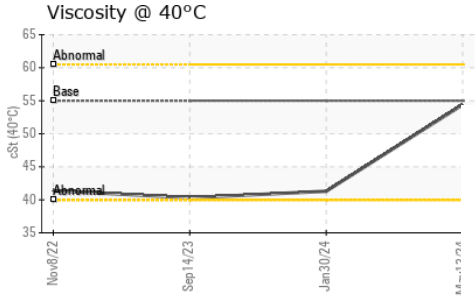
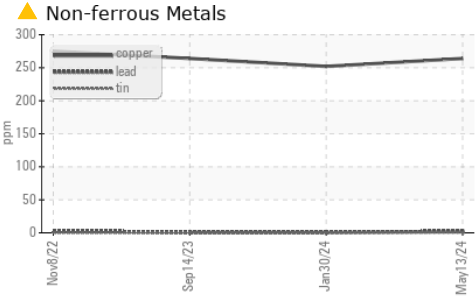
**CONTAMINANTS**

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	<b>15</b>	18	25
Sodium	ppm	ASTM D5185m	<b>7</b>	7	5
Potassium	ppm	ASTM D5185m >20	<b>1</b>	0	1

**VISUAL**

	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual NONE	<b>NONE</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
Free Water	scalar	*Visual	<b>NEG</b>	NEG	NEG

# OIL ANALYSIS REPORT

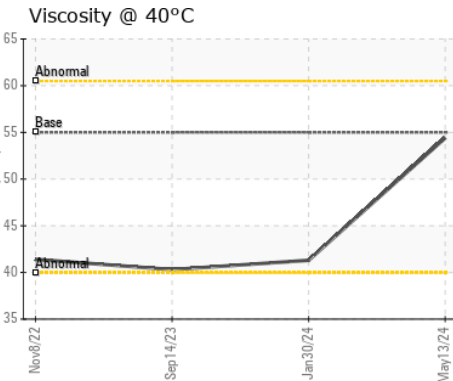
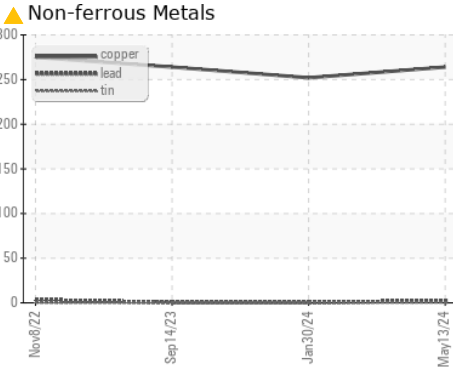
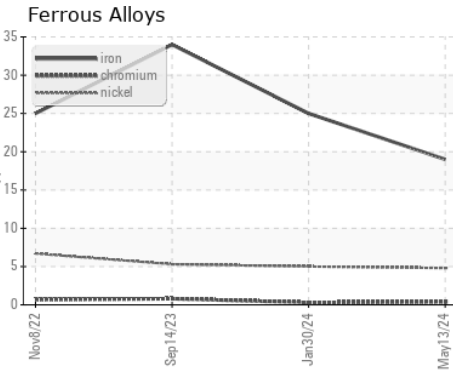


FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 55	<b>54.4</b>	41.3	40.3

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color			no image	no image	no image
Bottom			no image	no image	no image

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ASC0009857      **Received** : 20 May 2024  
**Lab Number** : **06184626**      **Tested** : 22 May 2024  
**Unique Number** : 11035952      **Diagnosed** : 22 May 2024 - Sean Felton  
**Test Package** : CONST

**CAROLINA EXCAVATING**  
 1036 BRANCHVIEW DR, SUITE 106  
 CONCORD, NC  
 US 28025  
 Contact: TIM CATLIN  
 tim@carolinaexcavation.com

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)