



# ASCENDUM

## OIL ANALYSIS REPORT

WEAR

**ABNORMAL**

CONTAMINATION

**NORMAL**

FLUID CONDITION

**NORMAL**



Area

**Ascendum Machinery**

Machine Id

**VOLVO A40G ED-05 (S/N A40GV352680)**

Component

**Brake Cooling System**

Fluid

**VOLVO SUPER WET BRAKE TRANSAXLE OIL WB102 (--- GAL)**

### RECOMMENDATION

The fluid 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.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>ASC0005300</b>	VCP0005480	VCP0003094
Sample Date		Client Info		<b>19 Oct 2023</b>	23 Mar 2023	19 Aug 2022
Machine Age	hrs	Client Info		<b>4012</b>	3047	2073
Oil Age	hrs	Client Info		<b>4012</b>	3047	2073
Filter Age	hrs	Client Info		<b>0</b>	0	1000
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Changed</b>	Changed	Changed
Sample Status				<b>ABNORMAL</b>	ABNORMAL	NORMAL

### WEAR

The copper level is abnormal. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>39</b>	46	24
Chromium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>10	<b>6</b>	5	4
Titanium	ppm	ASTM D5185m		<b>0</b>	<1	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	<1
Aluminum	ppm	ASTM D5185m	>30	<b>3</b>	2	2
Lead	ppm	ASTM D5185m	>50	<b>3</b>	2	<1
Copper	ppm	ASTM D5185m	>200	<b>▲ 233</b>	▲ 203	148
Tin	ppm	ASTM D5185m	>20	<b>0</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	MODER	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

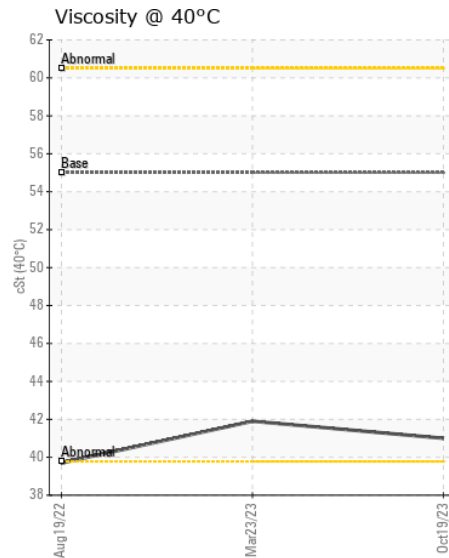
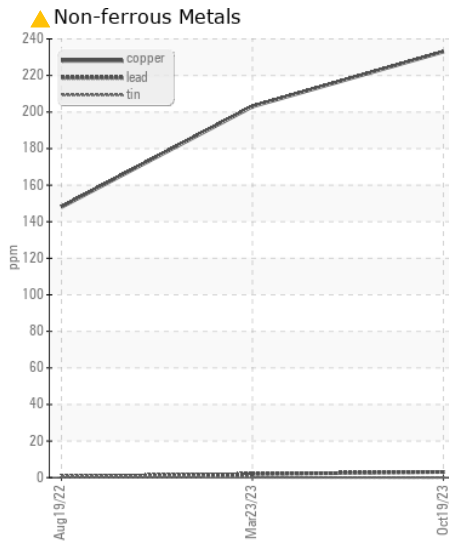
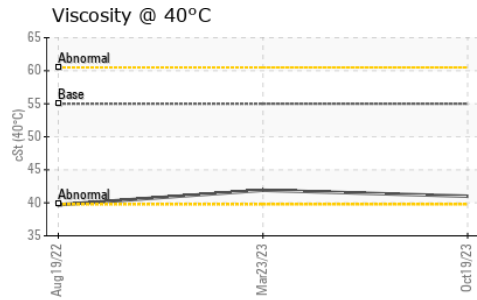
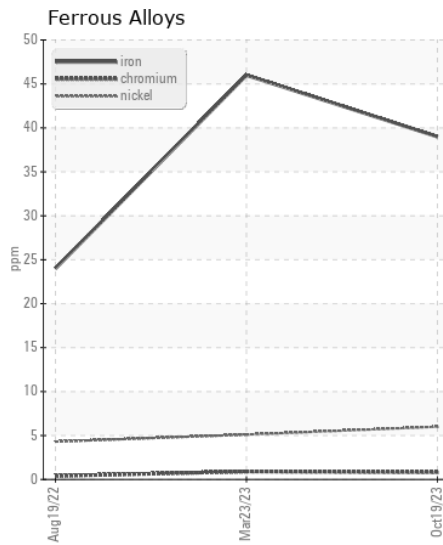
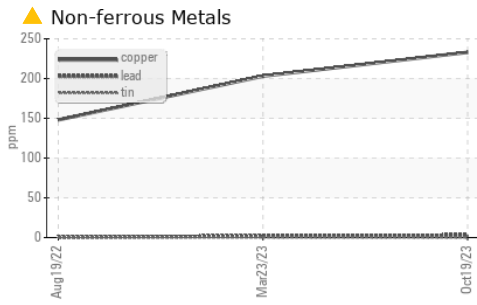
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>50	<b>22</b>	22	16
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	0	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>LIGHT</b>	▲ MODER	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 fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>9</b>	10	10
Boron	ppm	ASTM D5185m		<b>114</b>	119	135
Barium	ppm	ASTM D5185m		<b>0</b>	0	<1
Molybdenum	ppm	ASTM D5185m		<b>0</b>	<1	0
Manganese	ppm	ASTM D5185m		<b>1</b>	2	<1
Magnesium	ppm	ASTM D5185m		<b>11</b>	13	9
Calcium	ppm	ASTM D5185m		<b>3288</b>	3450	3289
Phosphorus	ppm	ASTM D5185m		<b>1282</b>	1215	1195
Zinc	ppm	ASTM D5185m		<b>1478</b>	1458	1464
Sulfur	ppm	ASTM D5185m		<b>4535</b>	4352	3764
Visc @ 40°C	cSt	ASTM D445	55	<b>41.0</b>	41.9	39.7



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ASC0005300  
**Lab Number** : 05988447  
**Unique Number** : 10711109  
**Test Package** : CONST

**Received** : 24 Oct 2023  
**Tested** : 25 Oct 2023  
**Diagnosed** : 26 Oct 2023 - Don Baldrige

**CAROLINA EXCAVATING**  
 1036 BRANCHVIEW DR, SUITE 106  
 CONCORD, NC  
 US 28025  
 Contact: KEVIN LADGERWOOD  
 kevin@carlinaexcavation.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)

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F: