



# ASCENDUM

## OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area  
**Ascendum Machinery**  
Machine Id  
**VOLVO A40G ED-05 (S/N A40GV352680)**  
Component  
**Front Axle**  
Fluid  
**VOLVO SUPER GEAR OIL 75W-80-GO102 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0009724	ASC0005307	VCP331199
Sample Date		Client Info		24 Jun 2024	19 Oct 2023	15 Feb 2022
Machine Age	hrs	Client Info		5008	4012	1079
Oil Age	hrs	Client Info		996	2933	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Changed	Changed
Filter Changed		Client Info		None	N/A	Not Changed
Sample Status				NORMAL	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>900	25	193	445
Chromium	ppm	ASTM D5185m	>20	0	3	6
Nickel	ppm	ASTM D5185m	>10	0	<1	2
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>30	<1	0	2
Lead	ppm	ASTM D5185m	>50	0	0	<1
Copper	ppm	ASTM D5185m	>150	2	1	2
Tin	ppm	ASTM D5185m	>20	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

### CONTAMINATION

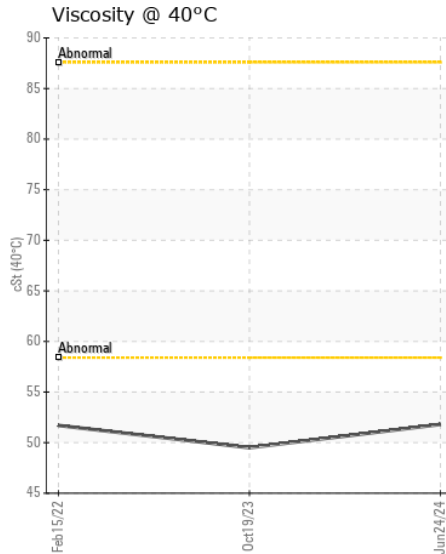
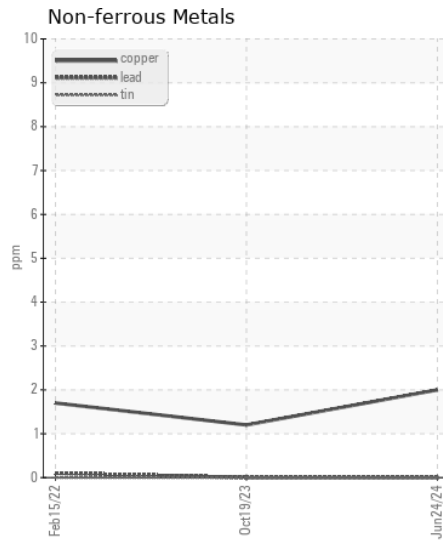
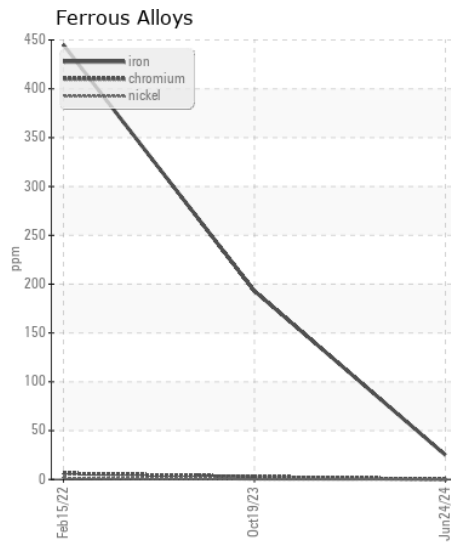
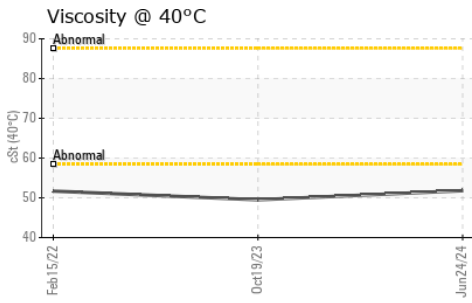
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	8	2	9
Potassium	ppm	ASTM D5185m	>20	2	<1	3
Water		WC Method	>0.2	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	MODER	MODER
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		3	1	<1
Boron	ppm	ASTM D5185m		252	273	297
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		3	2	4
Manganese	ppm	ASTM D5185m		1	3	14
Magnesium	ppm	ASTM D5185m		5	1	1
Calcium	ppm	ASTM D5185m		19	16	88
Phosphorus	ppm	ASTM D5185m		2565	2372	2606
Zinc	ppm	ASTM D5185m		28	18	31
Sulfur	ppm	ASTM D5185m		32568	27669	23968
Visc @ 40°C	cSt	ASTM D445		51.8	49.5	51.7



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ASC0009724  
**Lab Number** : 06221677  
**Unique Number** : 11099874  
**Test Package** : CONST

**Received** : 26 Jun 2024  
**Tested** : 27 Jun 2024  
**Diagnosed** : 28 Jun 2024 - 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: