



# ASCENDUM

## OIL ANALYSIS REPORT

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



Machine Id  
**VOLVO A30G 752919**  
Component  
**Front Axle**  
Fluid  
**VOLVO PREMIUM GEAR OIL 80W-90 GL-5 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>ASC0011194</b>	ASC0002591	VCP423960
Sample Date		Client Info		<b>17 Jun 2024</b>	22 Nov 2023	16 Aug 2023
Machine Age	hrs	Client Info		<b>3027</b>	1990	1356
Oil Age	hrs	Client Info		<b>1027</b>	1990	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changd</b>	Diff Oil	Not Changd
Filter Changed		Client Info		<b>N/A</b>	N/A	N/A
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>900	<b>110</b>	217	285
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	4	5
Nickel	ppm	ASTM D5185m	>10	<b>2</b>	3	3
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>30	<b>2</b>	1	4
Lead	ppm	ASTM D5185m	>50	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m	>150	<b>7</b>	15	13
Tin	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

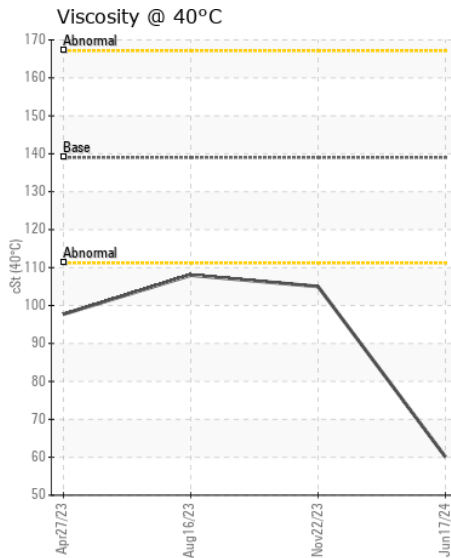
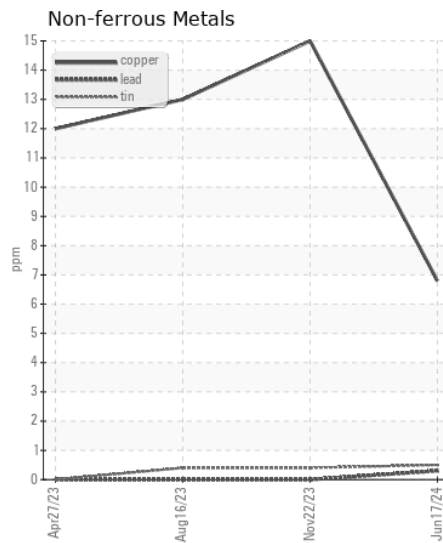
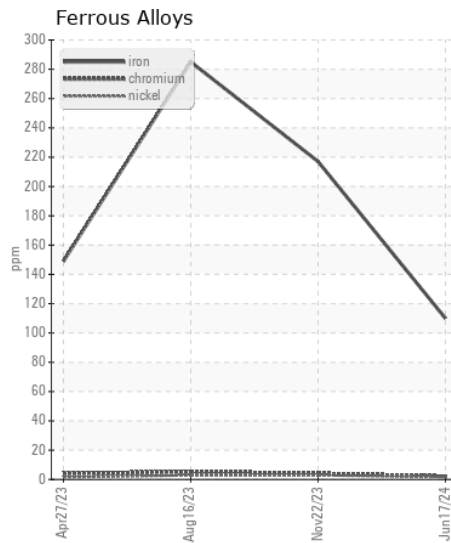
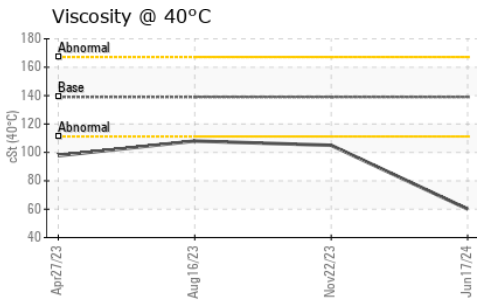
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>2</b>	3	15
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	4	4
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>MODER</b>	MODER	LIGHT
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

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Boron	ppm	ASTM D5185m	379	<b>297</b>	238	278
Barium	ppm	ASTM D5185m	0.0	<b>1</b>	0	4
Molybdenum	ppm	ASTM D5185m	0.8	<b>3</b>	8	9
Manganese	ppm	ASTM D5185m	0.0	<b>3</b>	8	10
Magnesium	ppm	ASTM D5185m	31	<b>1</b>	1	<1
Calcium	ppm	ASTM D5185m	38	<b>114</b>	340	349
Phosphorus	ppm	ASTM D5185m	1077	<b>2057</b>	1332	1306
Zinc	ppm	ASTM D5185m	46	<b>58</b>	144	155
Sulfur	ppm	ASTM D5185m	23526	<b>26000</b>	26429	25810
Visc @ 40°C	cSt	ASTM D445	139	<b>60.1</b>	105	108



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ASC0011194  
**Lab Number** : 06215125  
**Unique Number** : 11087989  
**Test Package** : CONST

**Received** : 19 Jun 2024  
**Tested** : 20 Jun 2024  
**Diagnosed** : 21 Jun 2024 - Sean Felton

**CARDINAL CIVIL**  
 4700 FALLS OF NEUSE RD, SUITE 370  
 RALEIGH, NC  
 US 27609  
 Contact: Service Manager

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)

T: (919)324-1964

F: