



# ASCENDUM

## OIL ANALYSIS REPORT

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



Machine Id  
**VOLVO A45G 353567**  
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		<b>ASC0011173</b>	ASC0006010	VCP435340
Sample Date		Client Info		<b>01 Jul 2024</b>	30 Nov 2023	30 Aug 2023
Machine Age	hrs	Client Info		<b>2082</b>	947	472
Oil Age	hrs	Client Info		<b>2082</b>	947	472
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	N/A	Not Changd
Filter Changed		Client Info		<b>N/A</b>	N/A	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>900	<b>90</b>	244	238
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	4	3
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	1	<1
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>	3	0
Lead	ppm	ASTM D5185m	>50	<b>&lt;1</b>	<1	0
Copper	ppm	ASTM D5185m	>150	<b>1</b>	2	1
Tin	ppm	ASTM D5185m	>20	<b>0</b>	0	<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

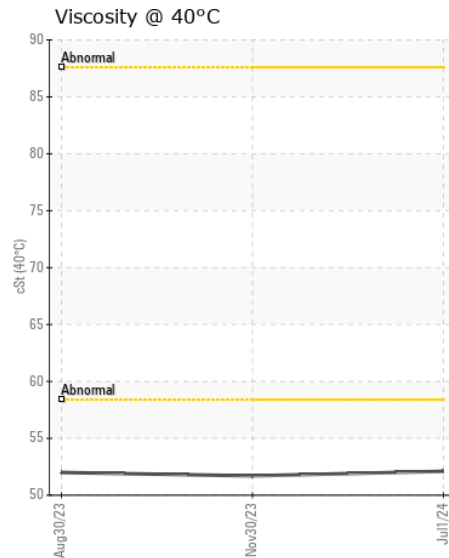
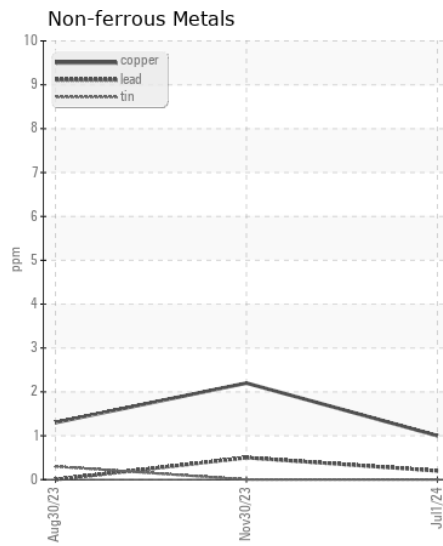
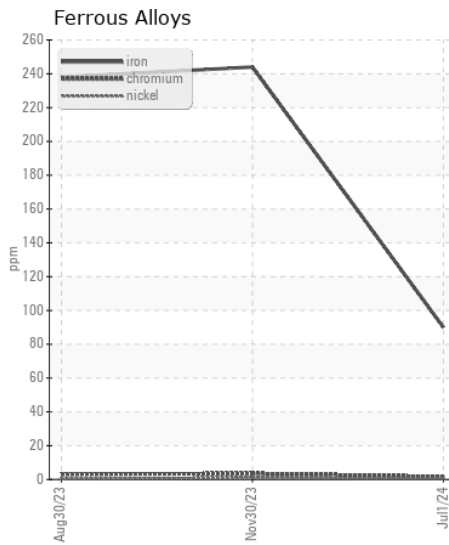
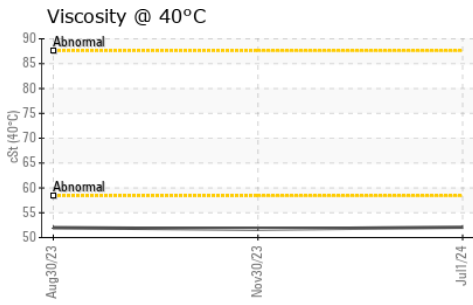
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>3</b>	4	13
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	4	5
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	MODER	NONE
Debris	scalar	*Visual	NONE	<b>LIGHT</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>2</b>	0	2
Boron	ppm	ASTM D5185m		<b>306</b>	259	293
Barium	ppm	ASTM D5185m		<b>0</b>	8	0
Molybdenum	ppm	ASTM D5185m		<b>1</b>	7	8
Manganese	ppm	ASTM D5185m		<b>3</b>	11	11
Magnesium	ppm	ASTM D5185m		<b>2</b>	1	2
Calcium	ppm	ASTM D5185m		<b>110</b>	136	129
Phosphorus	ppm	ASTM D5185m		<b>2192</b>	2489	2559
Zinc	ppm	ASTM D5185m		<b>48</b>	52	37
Sulfur	ppm	ASTM D5185m		<b>27610</b>	31202	25056
Visc @ 40°C	cSt	ASTM D445		<b>52.1</b>	51.7	52.0



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ASC0011173  
**Lab Number** : 06228177  
**Unique Number** : 11111670  
**Test Package** : CONST

**Received** : 03 Jul 2024  
**Tested** : 08 Jul 2024  
**Diagnosed** : 08 Jul 2024 - Angela Borella

**117 - ASCENDUM MACHINERY INC - GREENVILLE**  
 2002 N GREENE ST  
 GREENVILLE, NC  
 US 27834

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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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