



# ASCENDUM

## OIL ANALYSIS REPORT

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



Machine Id  
**VOLVO A45G 353567**  
Component  
**Drop Box**  
Fluid  
**VOLVO SUPER GEAR OIL 75W-80-GO102 (--- GAL)**

### RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>ASC0011378</b>	ASC0006044	VCP435338
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>ABNORMAL</b>	ABNORMAL	ABNORMAL

### WEAR

Bearing and/or gear wear is indicated.

Iron	ppm	ASTM D5185m	>500	<b>▲ 814</b>	551	562
Chromium	ppm	ASTM D5185m	>20	<b>10</b>	6	7
Nickel	ppm	ASTM D5185m	>10	<b>6</b>	5	4
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	0
Lead	ppm	ASTM D5185m	>30	<b>&lt;1</b>	0	1
Copper	ppm	ASTM D5185m	>30	<b>▲ 128</b>	▲ 148	▲ 126
Tin	ppm	ASTM D5185m	>20	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

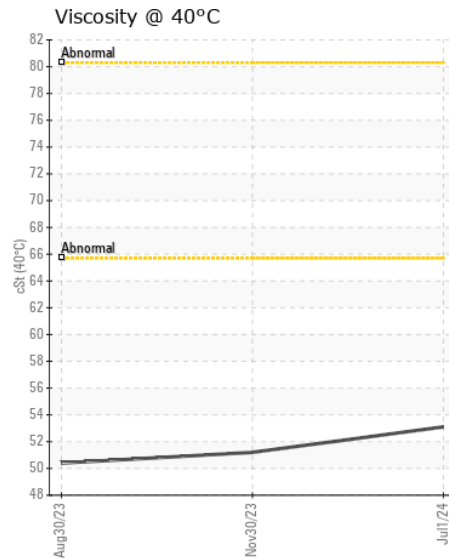
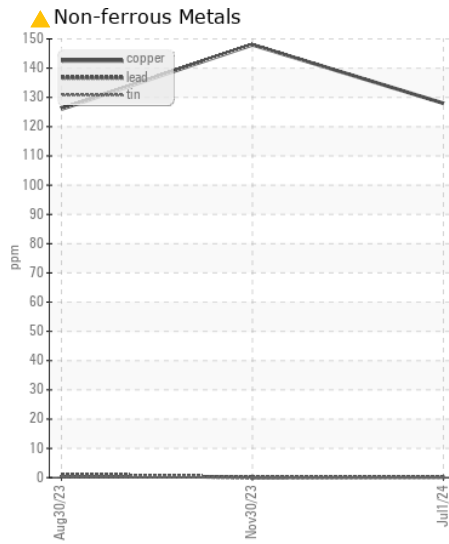
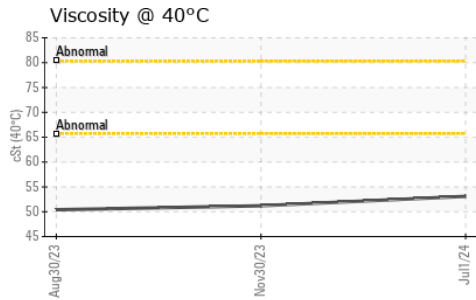
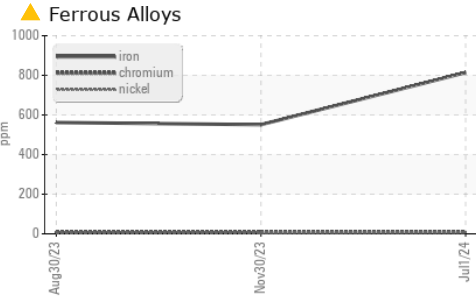
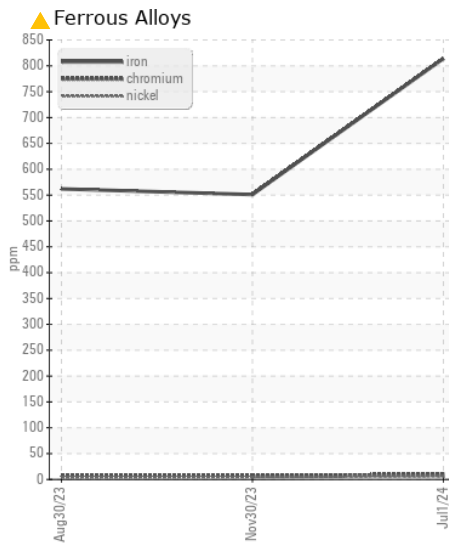
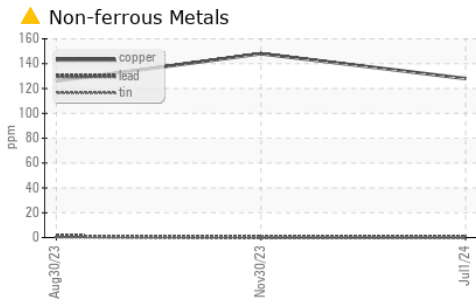
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>19</b>	23	42
Potassium	ppm	ASTM D5185m	>20	<b>8</b>	10	14
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
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

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>6</b>	8	11
Boron	ppm	ASTM D5185m		<b>217</b>	57	130
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>36</b>	49	53
Manganese	ppm	ASTM D5185m		<b>11</b>	7	11
Magnesium	ppm	ASTM D5185m		<b>4</b>	2	3
Calcium	ppm	ASTM D5185m		<b>119</b>	32	52
Phosphorus	ppm	ASTM D5185m		<b>2211</b>	2184	2439
Zinc	ppm	ASTM D5185m		<b>230</b>	305	402
Sulfur	ppm	ASTM D5185m		<b>28176</b>	30035	25056
Visc @ 40°C	cSt	ASTM D445		<b>53.1</b>	51.2	50.4



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ASC0011378  
**Lab Number** : 06228185  
**Unique Number** : 11111678  
**Test Package** : CONST

**Received** : 03 Jul 2024  
**Tested** : 08 Jul 2024  
**Diagnosed** : 08 Jul 2024 - Jonathan Hester

**117 - ASCENDUM MACHINERY INC - GREENVILLE**  
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 US 27834

Contact: BRANDON JENKINS  
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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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