



# ASCENDUM

## OIL ANALYSIS REPORT

WEAR

NORMAL

CONTAMINATION

NORMAL

FLUID CONDITION

ATTENTION



Area

**Ascendum Machinery/500 Hour CSA**

Machine Id

**VOLVO A45G 2362 (S/N A45GV752171)**

Component

**Drop Box**

Fluid

**GEAR OIL SAE 140 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		ASC0009167	ASC0010267	---
Sample Date		Client Info		16 Jul 2024	01 Apr 2024	---
Machine Age	hrs	Client Info		1072	501	---
Oil Age	hrs	Client Info		1072	501	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				ATTENTION	NORMAL	---

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	6	7	---
Chromium	ppm	ASTM D5185m	>20	<1	<1	---
Nickel	ppm	ASTM D5185m	>10	0	<1	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m		0	<1	---
Aluminum	ppm	ASTM D5185m	>30	1	2	---
Lead	ppm	ASTM D5185m	>30	0	1	---
Copper	ppm	ASTM D5185m	>30	<1	<1	---
Tin	ppm	ASTM D5185m	>20	0	1	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

### CONTAMINATION

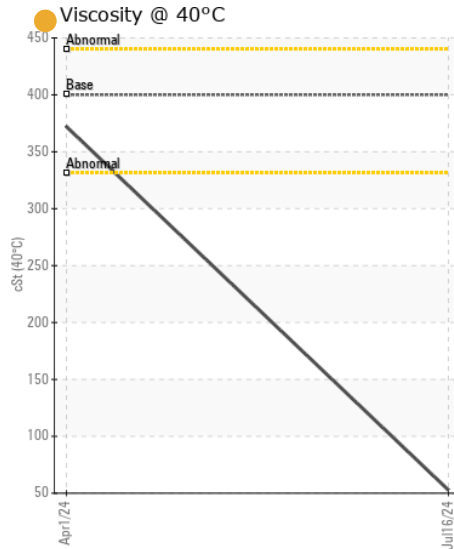
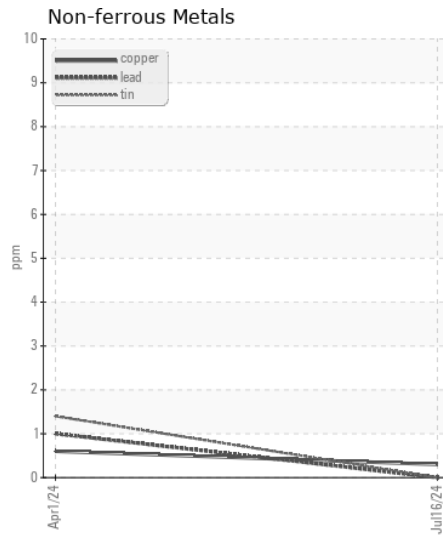
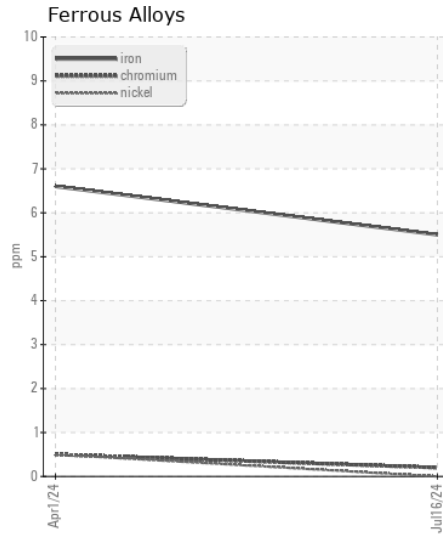
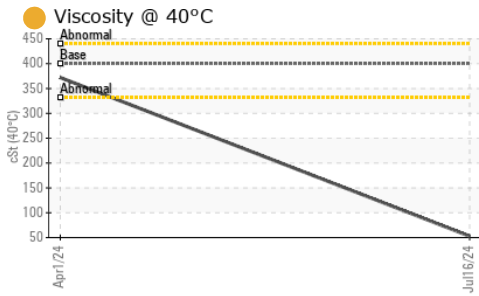
There is no indication of any contamination in the oil.

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

### FLUID CONDITION

The oil viscosity is lower than normal. Confirm oil type.

Sodium	ppm	ASTM D5185m		<1	<1	---
Boron	ppm	ASTM D5185m	400	320	208	---
Barium	ppm	ASTM D5185m	200	0	0	---
Molybdenum	ppm	ASTM D5185m	12	0	<1	---
Manganese	ppm	ASTM D5185m		0	<1	---
Magnesium	ppm	ASTM D5185m	12	3	<1	---
Calcium	ppm	ASTM D5185m	150	0	22	---
Phosphorus	ppm	ASTM D5185m	1650	2302	1134	---
Zinc	ppm	ASTM D5185m	125	10	4	---
Sulfur	ppm	ASTM D5185m	22500	25094	33495	---
Visc @ 40°C	cSt	ASTM D445	400	52.8	372	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ASC0009167  
**Lab Number** : 06240698  
**Unique Number** : 11129532  
**Test Package** : CONST

**Received** : 18 Jul 2024  
**Tested** : 19 Jul 2024  
**Diagnosed** : 20 Jul 2024 - Don Baldrige

**G S MATERIALS INC**  
 PO BOX 1335  
 BURLINGTON, NC  
 US 27216

Contact: KAREN NEWPORT  
 Gsmaterials@windstream.net  
 T: (919)499-9322  
 F: (919)499-2097

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)