



# VOLVO

## OIL ANALYSIS REPORT

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



Area  
**[633743 PRIMORIS]**  
Machine Id  
**VOLVO A40G 352509**  
Component  
**Drop Box**  
Fluid  
**VOLVO PREMIUM GEAR OIL 85W-140 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>VCP441544</b>	VCP393806	VCP365213
Sample Date		Client Info		<b>16 Nov 2023</b>	25 Apr 2023	16 Aug 2022
Machine Age	hrs	Client Info		<b>5500</b>	4282	3145
Oil Age	hrs	Client Info		<b>1500</b>	4282	500
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changed</b>	Changed	Not Changed
Filter Changed		Client Info		<b>Not Changed</b>	Changed	Not Changed
Sample Status				<b>NORMAL</b>	ATTENTION	ABNORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>107</b>	200	153
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	2	1
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	1	2
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>30	<b>2</b>	0	<1
Lead	ppm	ASTM D5185m	>30	<b>0</b>	<1	<1
Copper	ppm	ASTM D5185m	>30	<b>6</b>	37	33
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

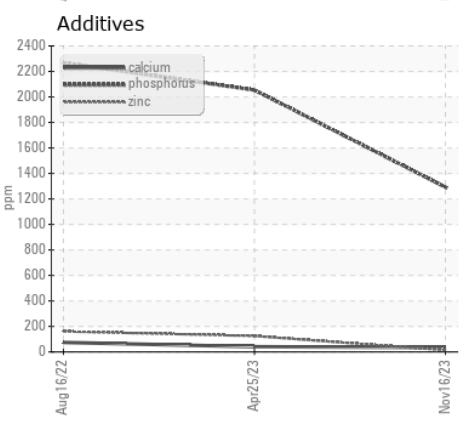
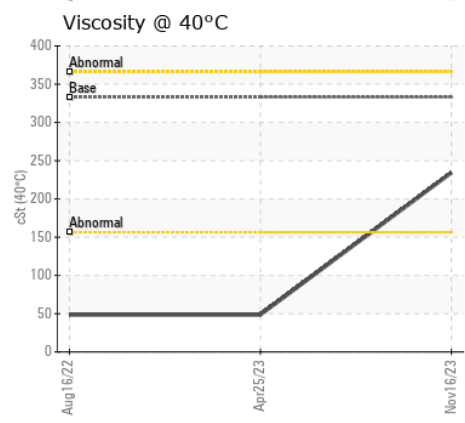
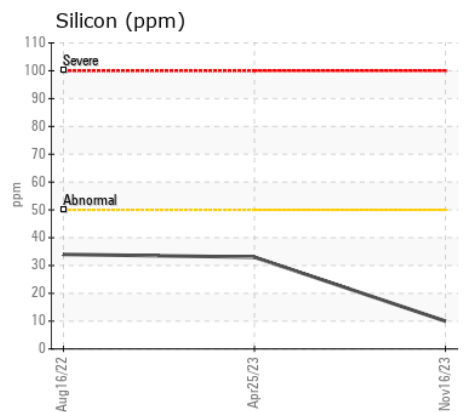
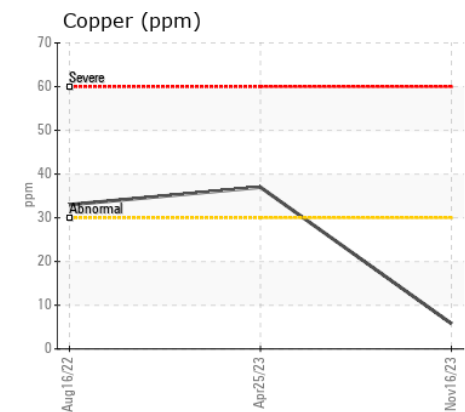
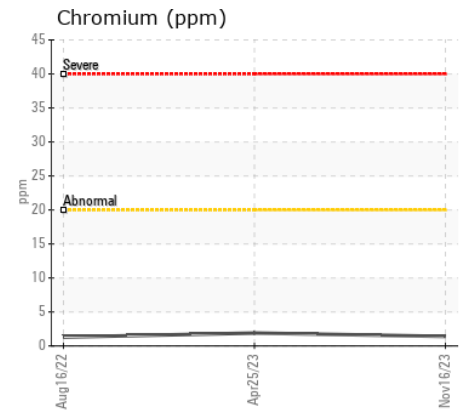
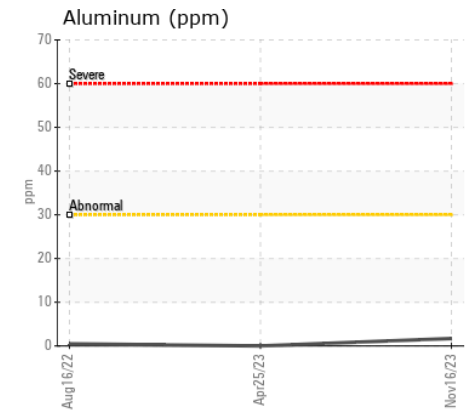
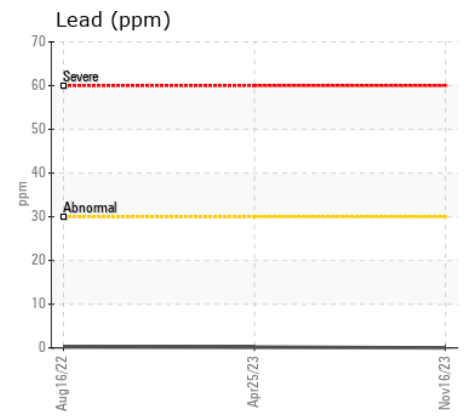
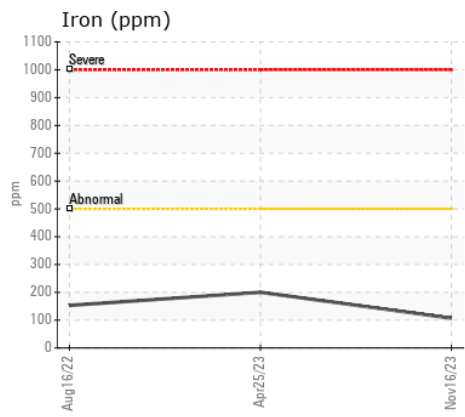
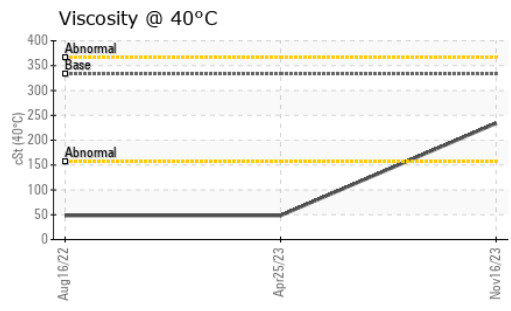
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>10</b>	33	34
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	2	2
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	▲ MODER
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>	6	10
Boron	ppm	ASTM D5185m	111	<b>60</b>	106	98
Barium	ppm	ASTM D5185m	0.0	<b>3</b>	0	0
Molybdenum	ppm	ASTM D5185m	0.9	<b>10</b>	11	8
Manganese	ppm	ASTM D5185m	0.0	<b>2</b>	6	6
Magnesium	ppm	ASTM D5185m	39	<b>5</b>	4	5
Calcium	ppm	ASTM D5185m	93	<b>34</b>	41	75
Phosphorus	ppm	ASTM D5185m	920	<b>1293</b>	2054	2267
Zinc	ppm	ASTM D5185m	104	<b>14</b>	125	161
Sulfur	ppm	ASTM D5185m	20179	<b>32781</b>	29600	27135
Visc @ 40°C	cSt	ASTM D445	333	<b>234</b>	▲ 48.4	▲ 48.4



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP441544 **Received** : 17 Jan 2024  
**Lab Number** : 06063126 **Diagnosed** : 19 Jan 2024  
**Unique Number** : 10834508 **Diagnostician** : Sean Felton  
**Test Package** : MOB 1

**ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC**  
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Certificate L2367  
 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)