



# VOLVO

## OIL ANALYSIS REPORT

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



Area

**[687753]**

Machine Id

**VOLVO A40G 352513**

Component

**Drop Box**

Fluid

**VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (--- GAL)**

### RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VCP437876</b>	VCP421224	VCP389379
Sample Date		Client Info		<b>14 Mar 2024</b>	31 Jul 2023	26 Sep 2022
Machine Age	hrs	Client Info		<b>6161</b>	5166	3603
Oil Age	hrs	Client Info		<b>2000</b>	5166	500
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changed</b>	Changed	N/A
Filter Changed		Client Info		<b>Changed</b>	Changed	Not Changed
Sample Status				<b>ABNORMAL</b>	NORMAL	ATTENTION

### WEAR

Gear wear is indicated. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>▲ 649</b>	160	44
Chromium	ppm	ASTM D5185m	>20	<b>8</b>	2	<1
Nickel	ppm	ASTM D5185m	>10	<b>7</b>	1	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>30	<b>0</b>	<1	<1
Lead	ppm	ASTM D5185m	>30	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	>30	<b>5</b>	6	<1
Tin	ppm	ASTM D5185m	>20	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

There is no indication of any contamination in the oil.

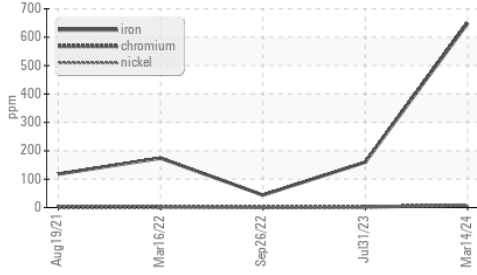
Silicon	ppm	ASTM D5185m	>50	<b>6</b>	14	2
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	<1	<1
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>MODER</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	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

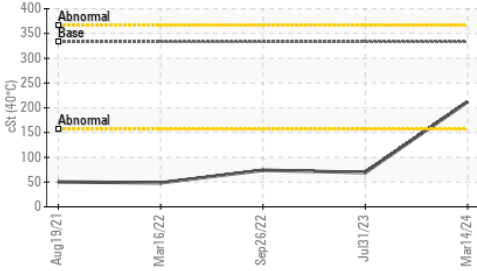
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		<b>0</b>	3	0
Boron	ppm	ASTM D5185m	111	<b>154</b>	88	238
Barium	ppm	ASTM D5185m	0.0	<b>0</b>	1	0
Molybdenum	ppm	ASTM D5185m	0.9	<b>14</b>	10	<1
Manganese	ppm	ASTM D5185m	0.0	<b>6</b>	3	2
Magnesium	ppm	ASTM D5185m	39	<b>12</b>	5	1
Calcium	ppm	ASTM D5185m	93	<b>309</b>	71	78
Phosphorus	ppm	ASTM D5185m	920	<b>1352</b>	1983	1897
Zinc	ppm	ASTM D5185m	104	<b>182</b>	94	36
Sulfur	ppm	ASTM D5185m	20179	<b>33069</b>	28493	28032
Visc @ 40°C	cSt	ASTM D445	333	<b>212</b>	69.2	74.0

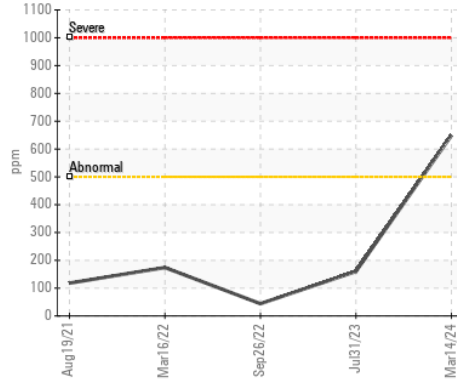
▲ Ferrous Alloys



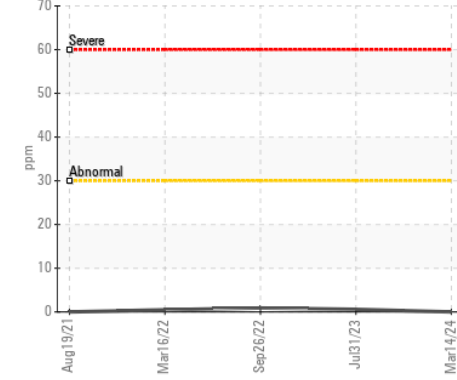
Viscosity @ 40°C



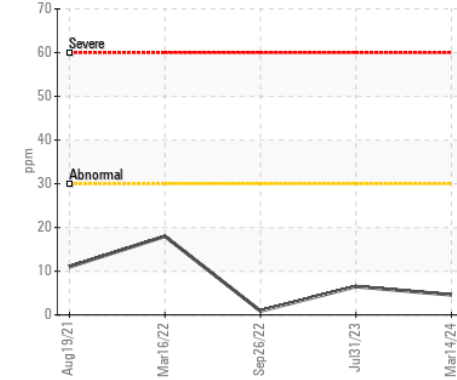
▲ Iron (ppm)



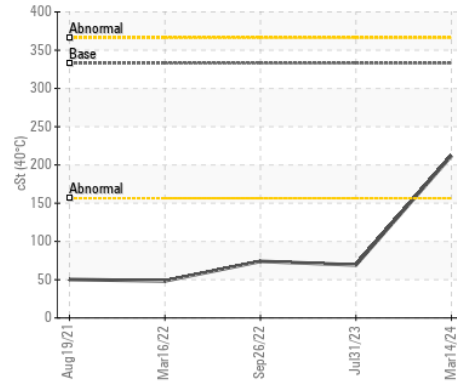
Aluminum (ppm)



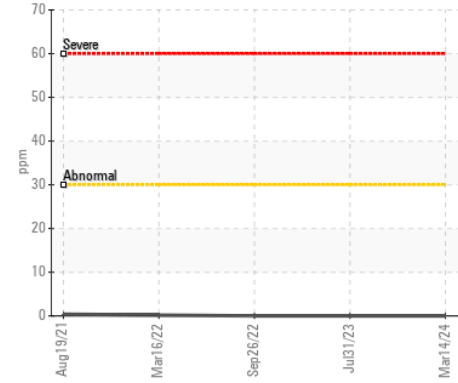
Copper (ppm)



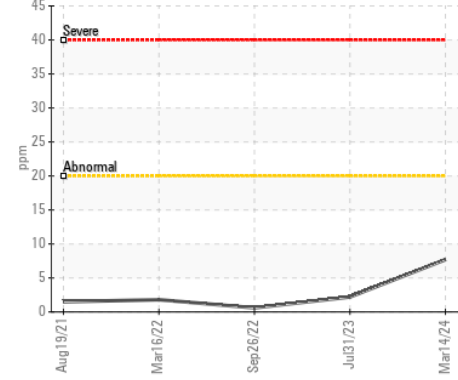
Viscosity @ 40°C



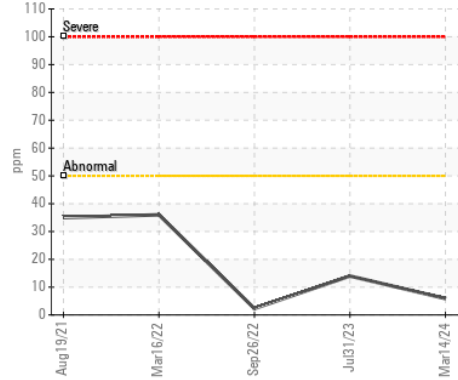
Lead (ppm)



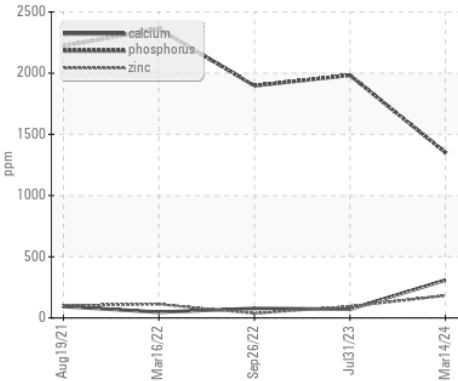
Chromium (ppm)



Silicon (ppm)



Additives



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
 Sample No. : VCP437876  
 Lab Number : 06146253  
 Unique Number : 10976331  
 Test Package : MOB 1

Received : 11 Apr 2024  
 Tested : 12 Apr 2024  
 Diagnosed : 15 Apr 2024 - Don Baldrige

**RIPA AND ASSOCIATES**  
 10149 FISHER AVENUE  
 TAMPA, FL  
 US 33619

Contact: PM Services  
 PMServices@ripaconstruction.com

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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