



# VOLVO

## OIL ANALYSIS REPORT

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



Area  
**[SPM703646 ALPINE]**  
 Machine Id  
**VOLVO EC480E 391030**  
 Component  
**Right Final Drive**  
 Fluid  
**GEAR OIL SAE 80W90 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VCP437420</b>	VCP420702	VCP388958
Sample Date		Client Info		<b>06 May 2024</b>	12 Sep 2023	21 Jul 2022
Machine Age	hrs	Client Info		<b>3348</b>	2080	972
Oil Age	hrs	Client Info		<b>0</b>	0	0
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>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>3360	<b>79</b>	271	138
Chromium	ppm	ASTM D5185m	>35	<b>&lt;1</b>	9	6
Nickel	ppm	ASTM D5185m	>8	<b>&lt;1</b>	1	0
Titanium	ppm	ASTM D5185m	>15	<b>&lt;1</b>	<1	0
Silver	ppm	ASTM D5185m		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>185	<b>2</b>	5	1
Lead	ppm	ASTM D5185m	>5	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m	>80	<b>44</b>	1	<1
Tin	ppm	ASTM D5185m	>8	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>LIGHT</b>	LIGHT	MODER
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

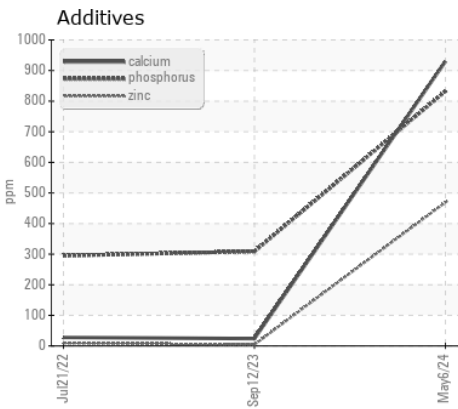
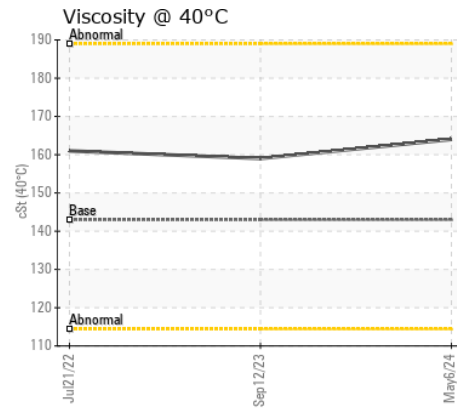
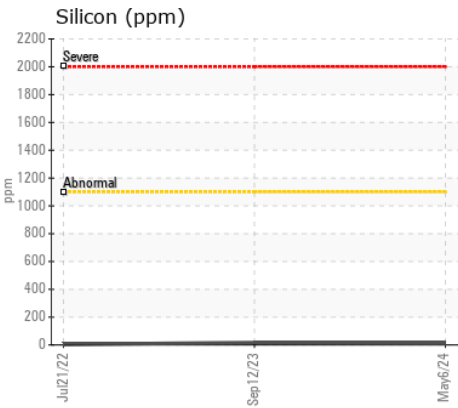
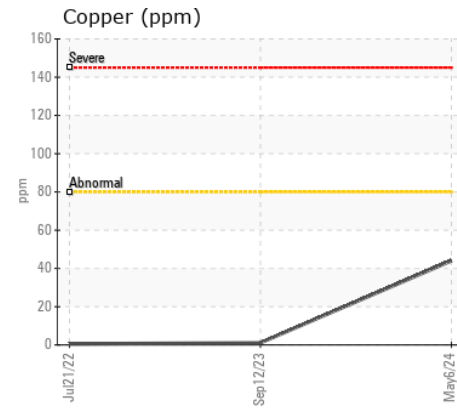
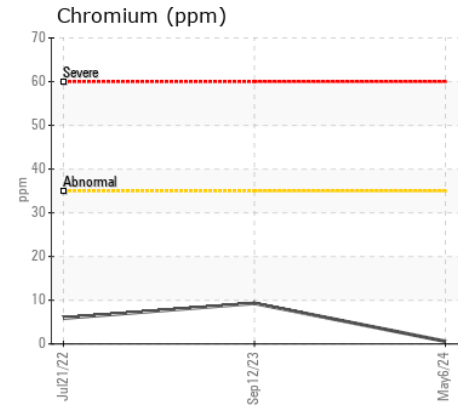
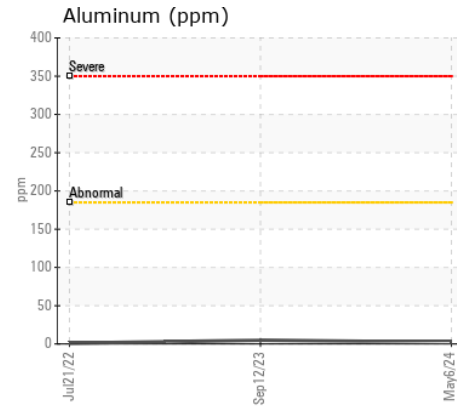
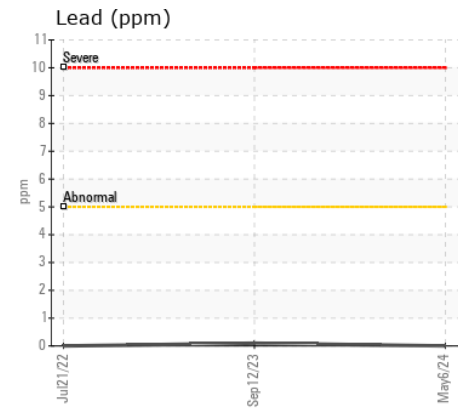
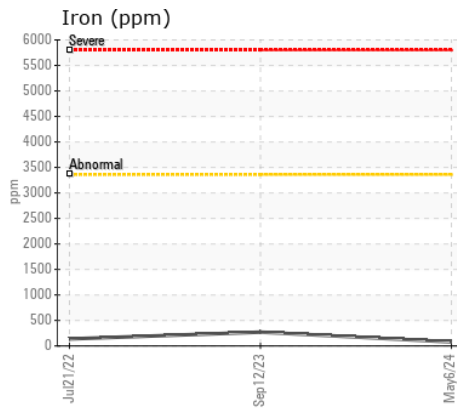
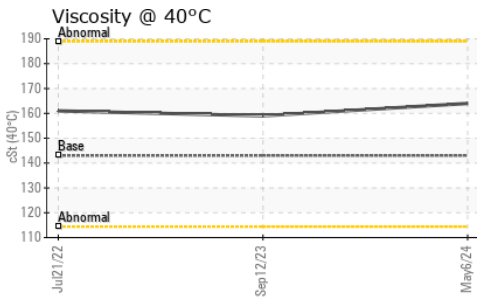
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>1100	<b>12</b>	19	3
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	4	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	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	>170	<b>2</b>	14	11
Boron	ppm	ASTM D5185m	400	<b>26</b>	0	<1
Barium	ppm	ASTM D5185m	200	<b>7</b>	0	4
Molybdenum	ppm	ASTM D5185m	12	<b>1</b>	<1	<1
Manganese	ppm	ASTM D5185m		<b>3</b>	8	5
Magnesium	ppm	ASTM D5185m	12	<b>18</b>	2	1
Calcium	ppm	ASTM D5185m	150	<b>930</b>	24	28
Phosphorus	ppm	ASTM D5185m	1650	<b>832</b>	309	295
Zinc	ppm	ASTM D5185m	125	<b>469</b>	5	9
Sulfur	ppm	ASTM D5185m	22500	<b>14105</b>	17507	17131
Visc @ 40°C	cSt	ASTM D445	143	<b>164</b>	159	161



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP437420  
**Lab Number** : 06212184  
**Unique Number** : 11085048  
**Test Package** : MOB 1

**Received** : 17 Jun 2024  
**Tested** : 19 Jun 2024  
**Diagnosed** : 19 Jun 2024 - Don Baldrige

**ALTA EQUIPMENT CO - ORLAND PARK**  
 5000 INDUSTRIAL HWY  
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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)