



# VOLVO

## OIL ANALYSIS REPORT

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



Area  
**[511389 WM]**  
Machine Id  
**VOLVO L70H 622630**  
Component  
**Rear Axle**  
Fluid  
**VOLVO WB 102 (--- GAL)**

### RECOMMENDATION

No corrective action is recommended at this time. 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>VCP455289</b>	VCP431582	VCP417628
Sample Date		Client Info		<b>15 Mar 2024</b>	15 Dec 2023	07 Jul 2023
Machine Age	hrs	Client Info		<b>11764</b>	11214	10741
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>Changed</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Sample Status				<b>ABNORMAL</b>	NORMAL	ABNORMAL

### WEAR

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

Iron	ppm	ASTM D5185m	>500	<b>▲ 697</b>	343	▲ 1056
Chromium	ppm	ASTM D5185m	>20	<b>4</b>	2	6
Nickel	ppm	ASTM D5185m	>10	<b>5</b>	2	6
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>	2	4
Lead	ppm	ASTM D5185m	>50	<b>&lt;1</b>	1	0
Copper	ppm	ASTM D5185m	>120	<b>36</b>	23	16
Tin	ppm	ASTM D5185m	>20	<b>2</b>	1	1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	MODER
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

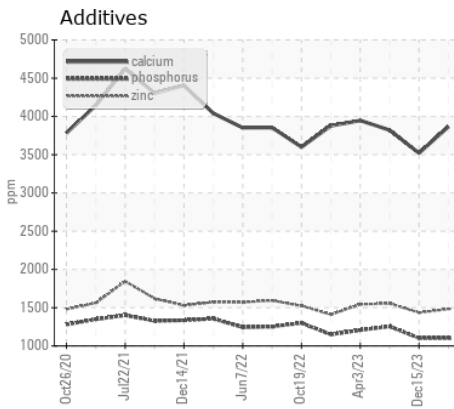
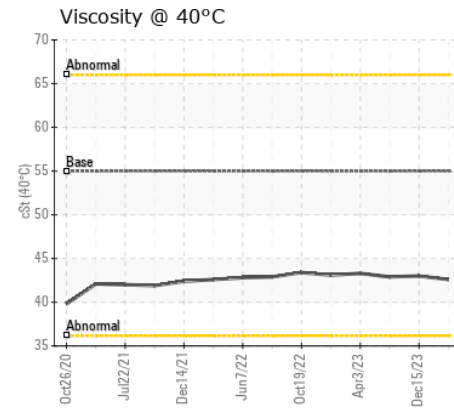
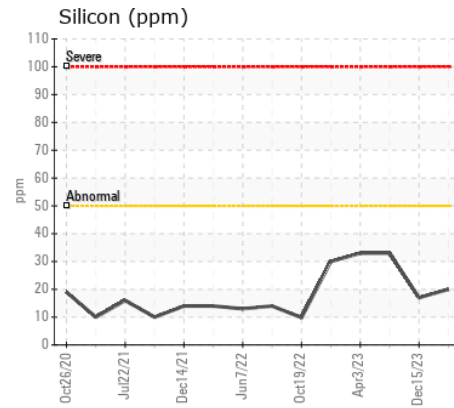
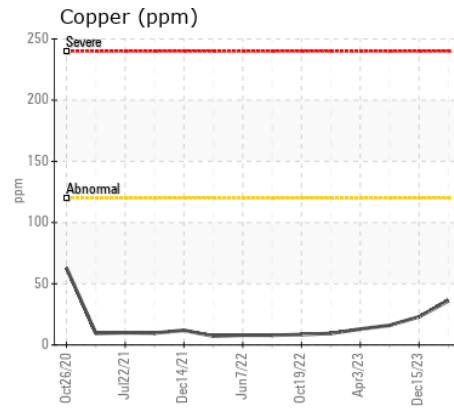
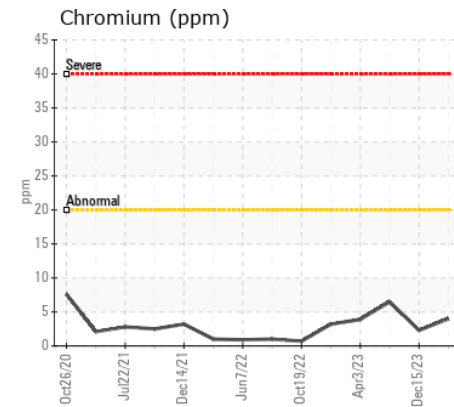
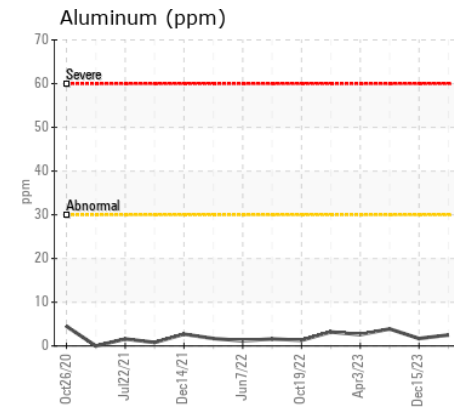
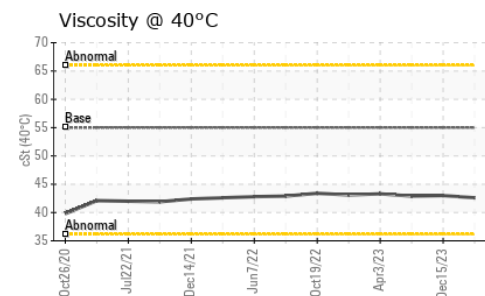
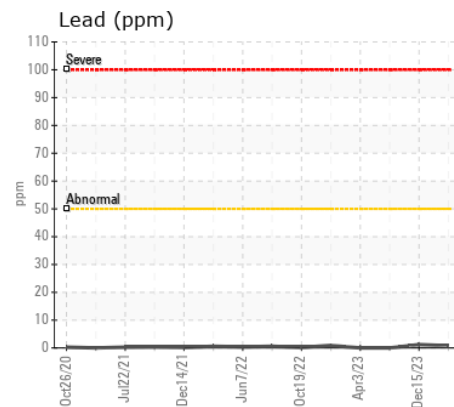
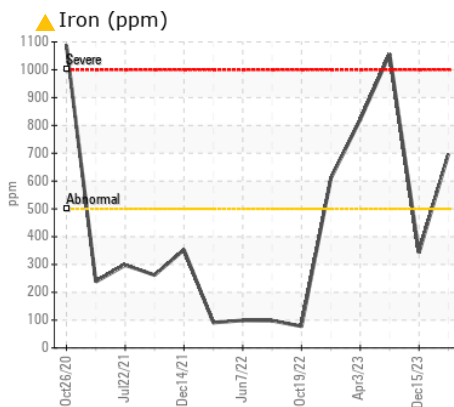
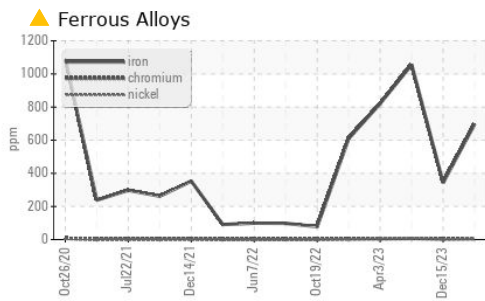
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>20</b>	17	33
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	0	0
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>LIGHT</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>&lt;1</b>	0	2
Boron	ppm	ASTM D5185m		<b>123</b>	134	130
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>12</b>	9	16
Manganese	ppm	ASTM D5185m		<b>19</b>	14	17
Magnesium	ppm	ASTM D5185m		<b>25</b>	13	23
Calcium	ppm	ASTM D5185m		<b>3865</b>	3520	3821
Phosphorus	ppm	ASTM D5185m		<b>1103</b>	1103	1255
Zinc	ppm	ASTM D5185m		<b>1481</b>	1435	1555
Sulfur	ppm	ASTM D5185m		<b>3752</b>	3470	4962
Visc @ 40°C	cSt	ASTM D445	55	<b>42.6</b>	43.0	42.9



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP455289 **Received** : 20 Mar 2024  
**Lab Number** : 06124084 **Tested** : 21 Mar 2024  
**Unique Number** : 10938235 **Diagnosed** : 22 Mar 2024 - Don Baldrige  
**Test Package** : MOB 1

**WASTE MANAGEMENT**  
 4986 LB MCLEOD RD.  
 ORLANDO, FL  
 US 32811  
 Contact: SERVICE MANAGER

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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