



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



Machine Id  
**VOLVO L220H 2440**  
Component  
**Rear Axle**  
Fluid  
**VOLVO WB 102 (20 GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>ML0002112</b>	VCP358708	VCP220584
Sample Date		Client Info		<b>19 Jun 2024</b>	26 Apr 2022	01 Apr 2020
Machine Age	hrs	Client Info		<b>13825</b>	9289	4598
Oil Age	hrs	Client Info		<b>13825</b>	0	0
Filter Age	hrs	Client Info		<b>13825</b>	0	0
Oil Changed		Client Info		<b>N/A</b>	Not Changd	Changed
Filter Changed		Client Info		<b>N/A</b>	Not Changd	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	<b>72</b>	142	173
Chromium	ppm	ASTM D5185m	>20	<b>1</b>	2	3
Nickel	ppm	ASTM D5185m	>10	<b>0</b>	<1	<1
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
Aluminum	ppm	ASTM D5185m	>30	<b>2</b>	3	<1
Lead	ppm	ASTM D5185m	>50	<b>1</b>	0	2
Copper	ppm	ASTM D5185m	>120	<b>1</b>	4	7
Tin	ppm	ASTM D5185m	>20	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	LIGHT	LIGHT
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

**CONTAMINATION**

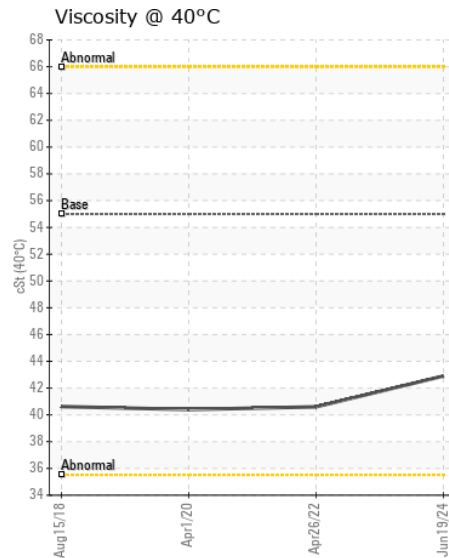
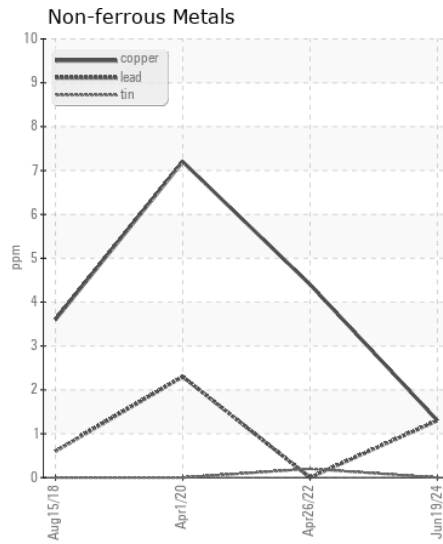
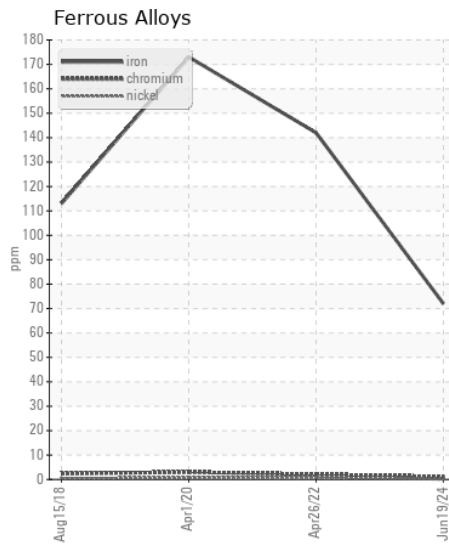
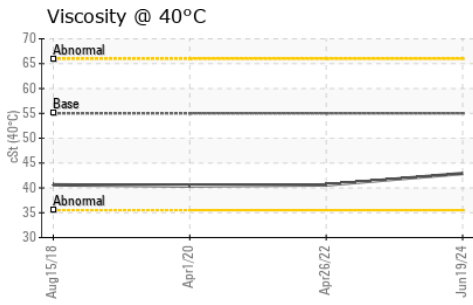
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>10</b>	14	11
Potassium	ppm	ASTM D5185m	>20	<b>0</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>	LIGHT	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>5</b>	3	<1
Boron	ppm	ASTM D5185m		<b>122</b>	110	102
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>2</b>	12	0
Manganese	ppm	ASTM D5185m		<b>1</b>	2	3
Magnesium	ppm	ASTM D5185m		<b>22</b>	62	10
Calcium	ppm	ASTM D5185m		<b>3883</b>	3289	3729
Phosphorus	ppm	ASTM D5185m		<b>1258</b>	1110	1164
Zinc	ppm	ASTM D5185m		<b>1462</b>	1263	1539
Sulfur	ppm	ASTM D5185m		<b>4085</b>	3328	3522
Visc @ 40°C	cSt	ASTM D445	55	<b>42.9</b>	40.6	40.4



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ML0002112  
**Lab Number** : 06222903  
**Unique Number** : 11101100  
**Test Package** : CONST

**Received** : 27 Jun 2024  
**Tested** : 28 Jun 2024  
**Diagnosed** : 30 Jun 2024 - Don Baldrige

**SAVAGE STONE-A DIV OF LAUREL SAND & GRAVEL**  
 8420 WASHINGTON BLVD  
 JESSUP, MD  
 US 20794

Contact: OWEN STEWART  
 ostewart@savagestone.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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