



# VOLVO

## OIL ANALYSIS REPORT

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



Area

**[562094 COVANTA]**

Machine Id

**VOLVO L220H 3339**

Component

**Rear Axle**

Fluid

**VOLVO WET BRAKE TRANSAXLE OIL (--- GAL)**

### RECOMMENDATION

The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VCP450782</b>	---	---
Sample Date		Client Info		<b>21 May 2024</b>	---	---
Machine Age	hrs	Client Info		<b>9447</b>	---	---
Oil Age	hrs	Client Info		<b>0</b>	---	---
Filter Age	hrs	Client Info		<b>0</b>	---	---
Oil Changed		Client Info		<b>Changed</b>	---	---
Filter Changed		Client Info		<b>Not Changed</b>	---	---
Sample Status				<b>SEVERE</b>	---	---

### WEAR

The iron level is severe. Gear wear is indicated.

Iron	ppm	ASTM D5185m	>500	<b>▲ 1330</b>	---	---
Chromium	ppm	ASTM D5185m	>20	<b>15</b>	---	---
Nickel	ppm	ASTM D5185m	>10	<b>6</b>	---	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	---	---
Silver	ppm	ASTM D5185m		<b>0</b>	---	---
Aluminum	ppm	ASTM D5185m	>30	<b>2</b>	---	---
Lead	ppm	ASTM D5185m	>50	<b>&lt;1</b>	---	---
Copper	ppm	ASTM D5185m	>120	<b>2</b>	---	---
Tin	ppm	ASTM D5185m	>20	<b>&lt;1</b>	---	---
Vanadium	ppm	ASTM D5185m		<b>1</b>	---	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	---	---

### CONTAMINATION

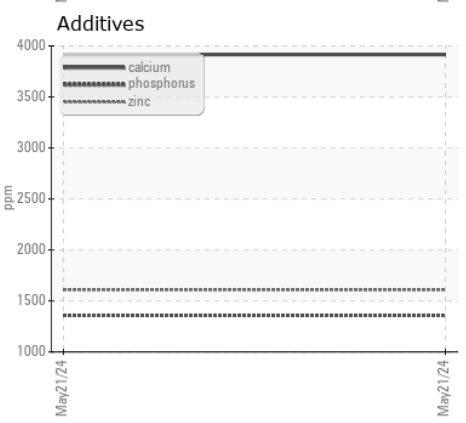
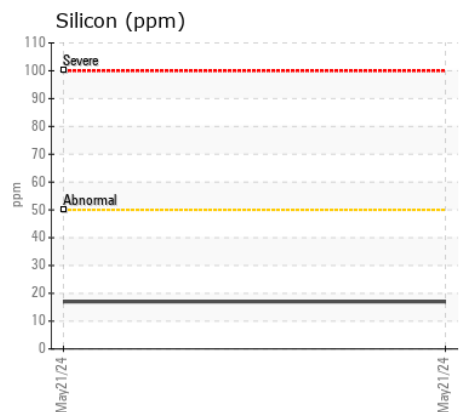
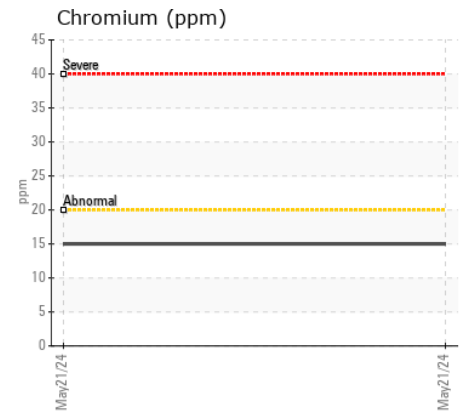
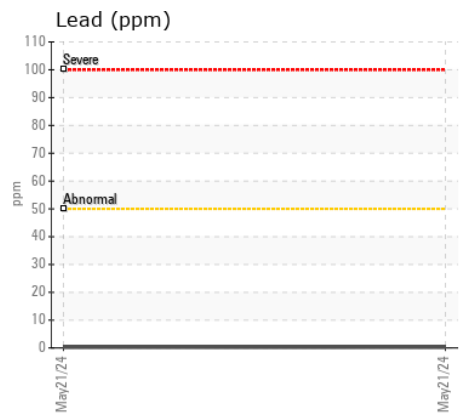
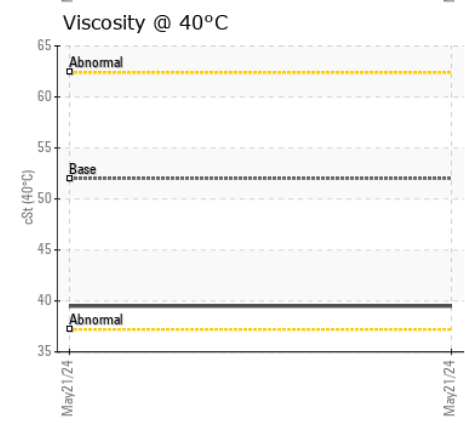
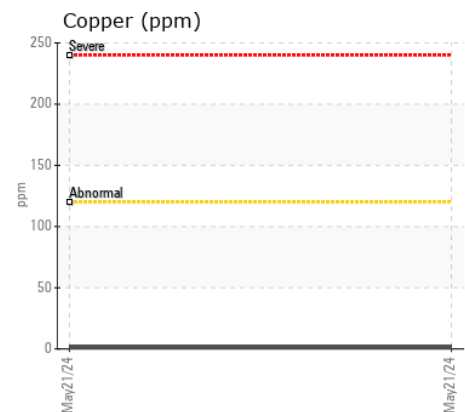
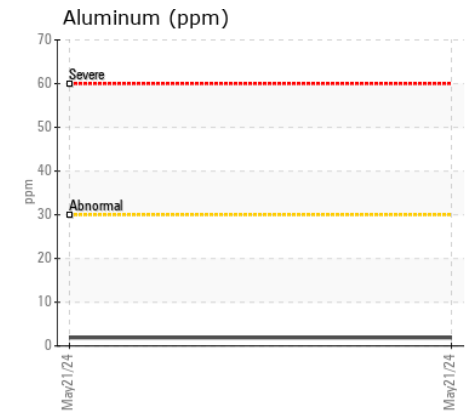
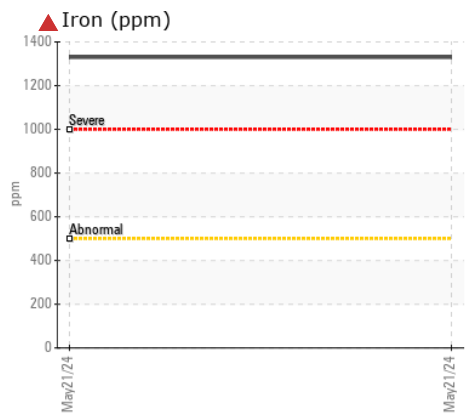
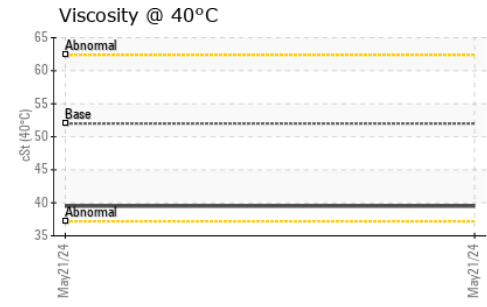
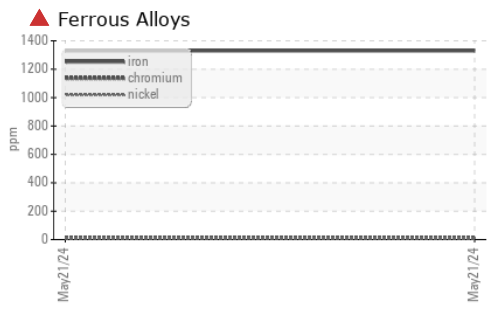
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	<b>17</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	---	---
Water		WC Method	>0.2	<b>NEG</b>	---	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	---	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	---	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	---	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	---	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	---	---

### FLUID CONDITION

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Sodium	ppm	ASTM D5185m		<b>11</b>	---	---
Boron	ppm	ASTM D5185m	100	<b>115</b>	---	---
Barium	ppm	ASTM D5185m	0	<b>&lt;1</b>	---	---
Molybdenum	ppm	ASTM D5185m	0	<b>89</b>	---	---
Manganese	ppm	ASTM D5185m		<b>20</b>	---	---
Magnesium	ppm	ASTM D5185m	0	<b>14</b>	---	---
Calcium	ppm	ASTM D5185m	3800	<b>3915</b>	---	---
Phosphorus	ppm	ASTM D5185m	1200	<b>1359</b>	---	---
Zinc	ppm	ASTM D5185m	1500	<b>1609</b>	---	---
Sulfur	ppm	ASTM D5185m	6500	<b>4580</b>	---	---
Visc @ 40°C	cSt	ASTM D445	52.0	<b>39.5</b>	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP450782  
**Lab Number** : 06195760  
**Unique Number** : 11057883  
**Test Package** : MOB 1  
**Received** : 30 May 2024  
**Tested** : 31 May 2024  
**Diagnosed** : 01 Jun 2024 - Don Baldrige

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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)