



# VOLVO

## OIL ANALYSIS REPORT

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



Machine Id  
**VOLVO L120H 633400**  
Component  
**Hydraulic System**  
Fluid  
**VALVOLINE ALLFLEET 10W (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VCP437220</b>	VCP442187	---
Sample Date		Client Info		<b>20 Feb 2024</b>	19 Oct 2023	---
Machine Age	hrs	Client Info		<b>2033</b>	1010	---
Oil Age	hrs	Client Info		<b>0</b>	1010	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Changed</b>	Not Changd	---
Filter Changed		Client Info		<b>Changed</b>	Changed	---
Sample Status				<b>NORMAL</b>	ABNORMAL	---

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<b>5</b>	4	---
Chromium	ppm	ASTM D5185m	>20	<b>2</b>	<1	---
Nickel	ppm	ASTM D5185m	>10	<b>&lt;1</b>	0	---
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	---
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Aluminum	ppm	ASTM D5185m	>20	<b>&lt;1</b>	1	---
Lead	ppm	ASTM D5185m	>20	<b>1</b>	1	---
Copper	ppm	ASTM D5185m	>20	<b>2</b>	1	---
Tin	ppm	ASTM D5185m	>20	<b>&lt;1</b>	<1	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

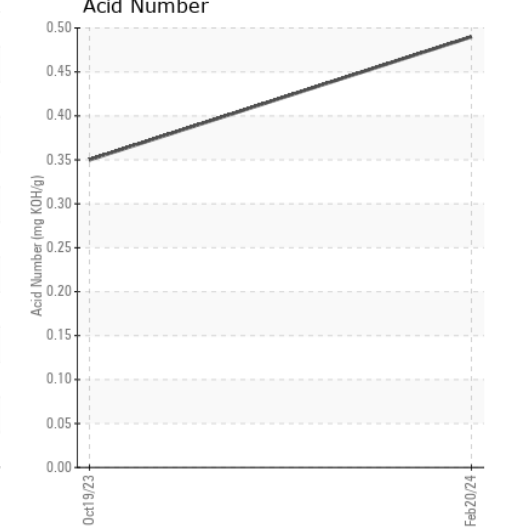
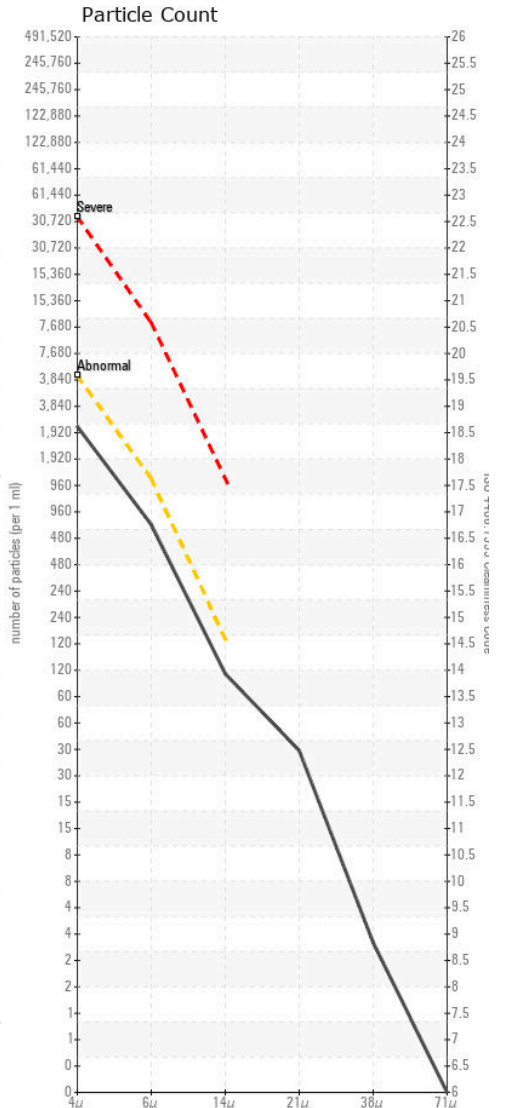
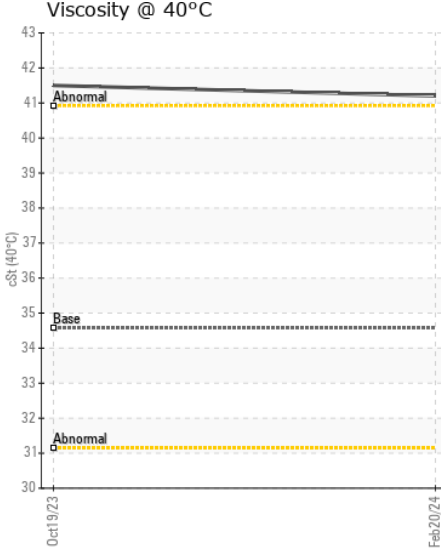
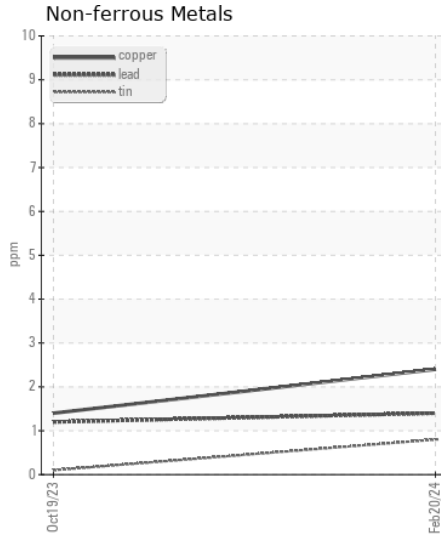
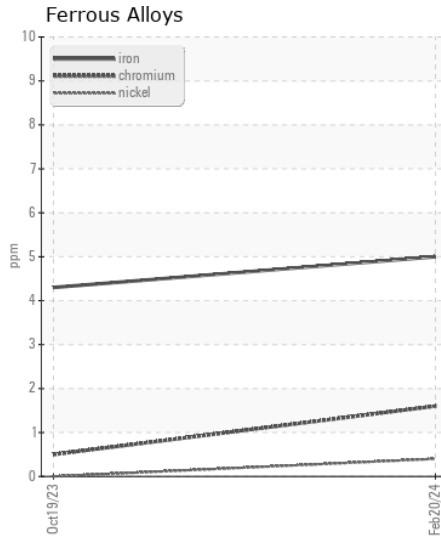
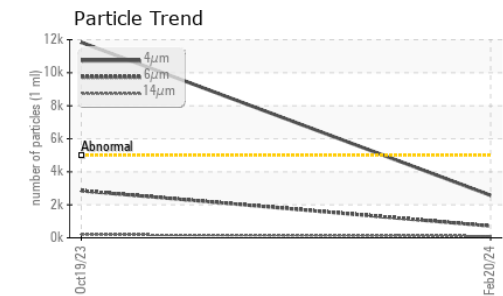
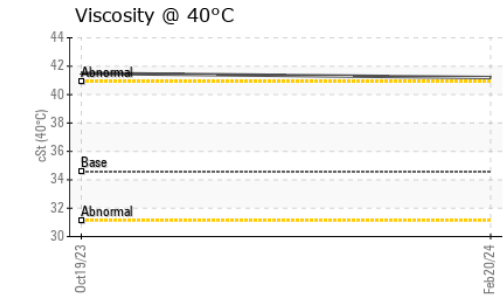
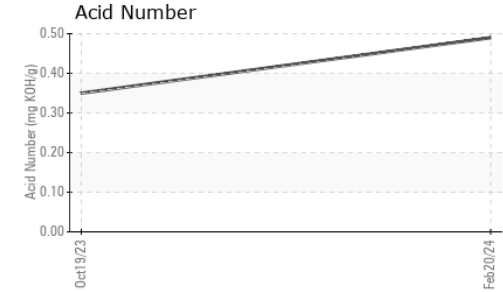
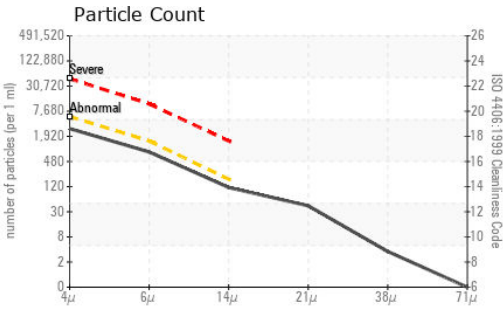
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	<b>3</b>	2	---
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	1	---
Water		WC Method	>0.2	<b>NEG</b>	NEG	---
Particles >4µm		ASTM D7647	>5000	<b>2572</b>	▲ 11841	---
Particles >6µm		ASTM D7647	>1300	<b>712</b>	▲ 2849	---
Particles >14µm		ASTM D7647	>160	<b>101</b>	▲ 192	---
Particles >21µm		ASTM D7647	>40	<b>37</b>	48	---
Particles >38µm		ASTM D7647	>10	<b>3</b>	2	---
Particles >71µm		ASTM D7647	>3	<b>0</b>	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>19/17/14</b>	▲ 21/19/15	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>LIGHT</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	---

### FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>0</b>	0	---
Boron	ppm	ASTM D5185m		<b>10</b>	0	---
Barium	ppm	ASTM D5185m		<b>5</b>	0	---
Molybdenum	ppm	ASTM D5185m		<b>14</b>	1	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Magnesium	ppm	ASTM D5185m		<b>39</b>	4	---
Calcium	ppm	ASTM D5185m		<b>468</b>	59	---
Phosphorus	ppm	ASTM D5185m		<b>371</b>	345	---
Zinc	ppm	ASTM D5185m		<b>522</b>	437	---
Sulfur	ppm	ASTM D5185m		<b>2256</b>	2196	---
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.49</b>	0.35	---
Visc @ 40°C	cSt	ASTM D445	34.57	<b>41.2</b>	41.5	---



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP437220 **Received** : 23 Feb 2024  
**Lab Number** : 06098297 **Tested** : 26 Feb 2024  
**Unique Number** : 10896527 **Diagnosed** : 26 Feb 2024 - Don Baldrige  
**Test Package** : MOB 2

**CITY CARTING**  
 221 OLD GATE LN  
 MILFORD, CT  
 US 06460  
 Contact: TAVINS BANKS  
 tavins@citycart.net  
 T: (203)223-3885  
 F:

Certificate L2367  
 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)