



# VOLVO

## OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL



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

### RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP438993	VCP437220	VCP442187
Sample Date		Client Info		12 Apr 2024	20 Feb 2024	19 Oct 2023
Machine Age	hrs	Client Info		0	2033	1010
Oil Age	hrs	Client Info		0	0	1010
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Not Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ATTENTION	NORMAL	ABNORMAL

### WEAR

All component wear rates are normal.

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

### CONTAMINATION

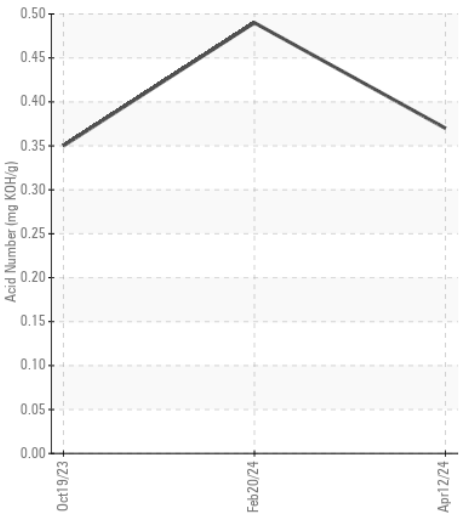
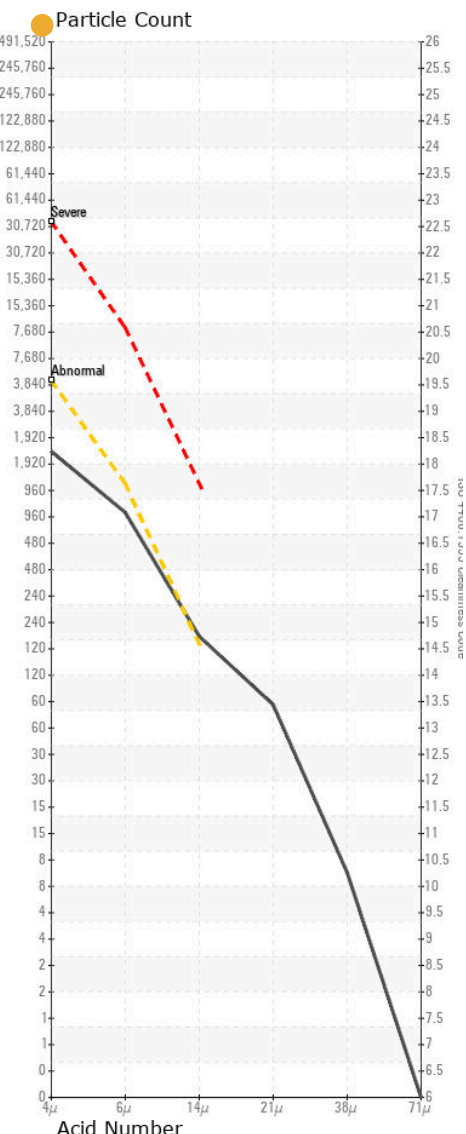
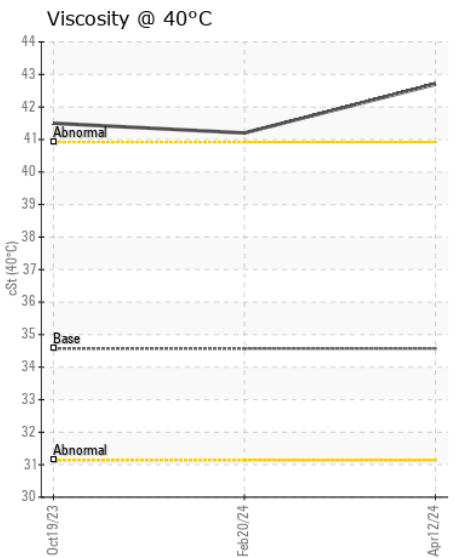
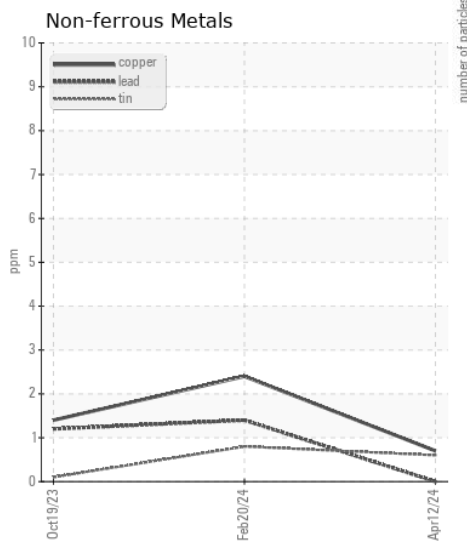
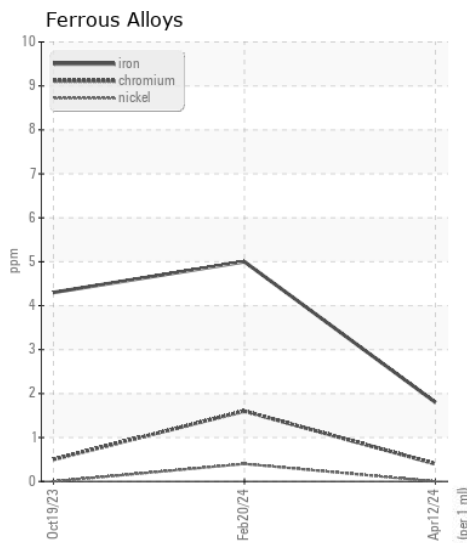
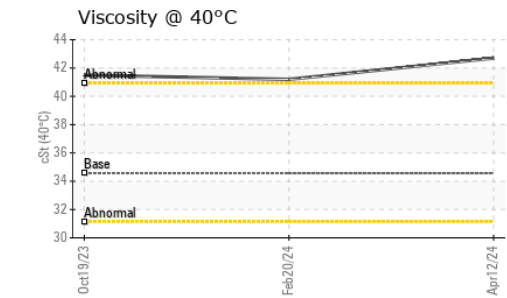
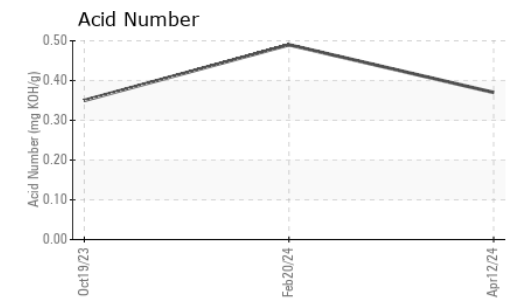
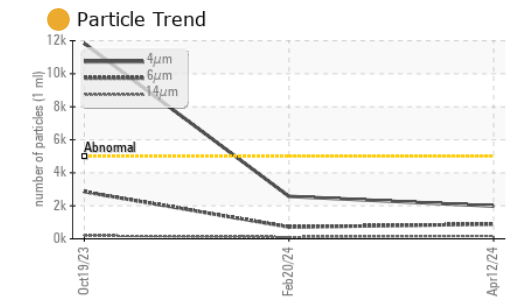
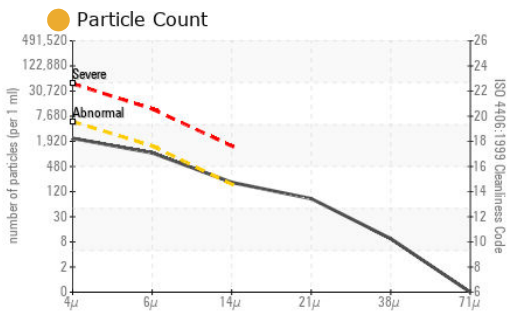
There is a moderate amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>20	<1	3	2
Potassium	ppm	ASTM D5185m	>20	0	2	1
Water		WC Method	>0.2	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	1982	2572	▲ 11841
Particles >6µm		ASTM D7647	>1300	891	712	▲ 2849
Particles >14µm		ASTM D7647	>160	● 176	101	● 192
Particles >21µm		ASTM D7647	>40	● 72	37	48
Particles >38µm		ASTM D7647	>10	8	3	2
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	● 18/17/15	19/17/14	▲ 21/19/15
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	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		2	0	0
Boron	ppm	ASTM D5185m		3	10	0
Barium	ppm	ASTM D5185m		0	5	0
Molybdenum	ppm	ASTM D5185m		6	14	1
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		15	39	4
Calcium	ppm	ASTM D5185m		266	468	59
Phosphorus	ppm	ASTM D5185m		345	371	345
Zinc	ppm	ASTM D5185m		393	522	437
Sulfur	ppm	ASTM D5185m		2229	2256	2196
Acid Number (AN)	mg KOH/g	ASTM D8045		0.37	0.49	0.35
Visc @ 40°C	cSt	ASTM D445	34.57	42.7	41.2	41.5



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP438993 **Received** : 16 Apr 2024  
**Lab Number** : 06150249 **Tested** : 17 Apr 2024  
**Unique Number** : 10980327 **Diagnosed** : 18 Apr 2024 - Don Baldrige  
**Test Package** : MOB 2

**CITY CARTING**  
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 F:

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)