



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[5351]
Machine Id
VOLVO L110H 10197
Component
Hydraulic System
Fluid
VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP394570	VCP298187	---
Sample Date		Client Info		21 Mar 2024	11 Jun 2021	---
Machine Age	hrs	Client Info		7025	5006	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Chngd	N/A	---
Filter Changed		Client Info		Changed	N/A	---
Sample Status				NORMAL	ATTENTION	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	6	4	---
Chromium	ppm	ASTM D5185(m)	>20	<1	<1	---
Nickel	ppm	ASTM D5185(m)	>10	0	<1	---
Titanium	ppm	ASTM D5185(m)		0	0	---
Silver	ppm	ASTM D5185(m)		0	0	---
Aluminum	ppm	ASTM D5185(m)	>20	1	<1	---
Lead	ppm	ASTM D5185(m)	>20	<1	<1	---
Copper	ppm	ASTM D5185(m)	>150	2	2	---
Tin	ppm	ASTM D5185(m)	>20	0	0	---
Vanadium	ppm	ASTM D5185(m)		0	0	---
White Metal	scalar	Visual*	NONE	NONE	NONE	---
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	---

CONTAMINATION

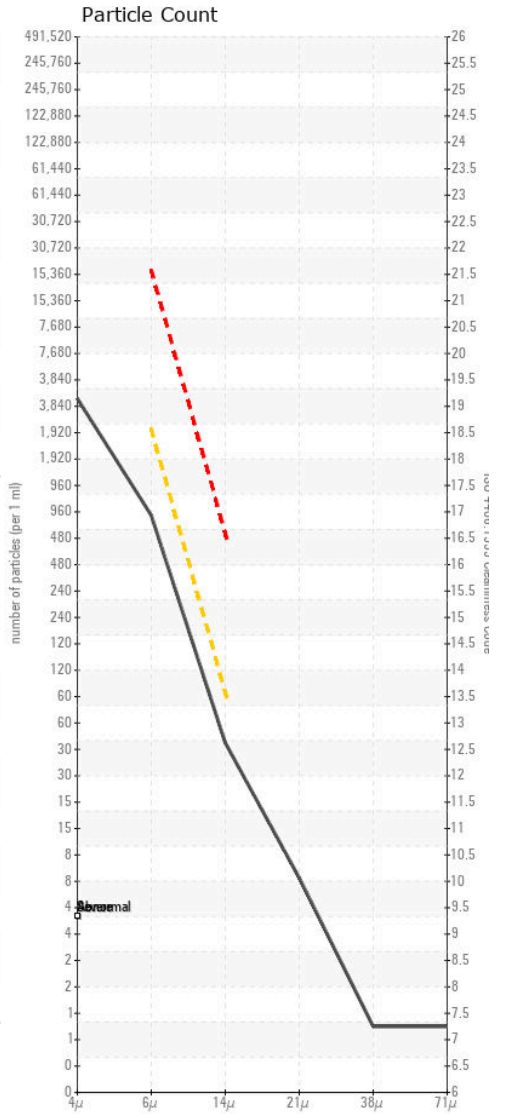
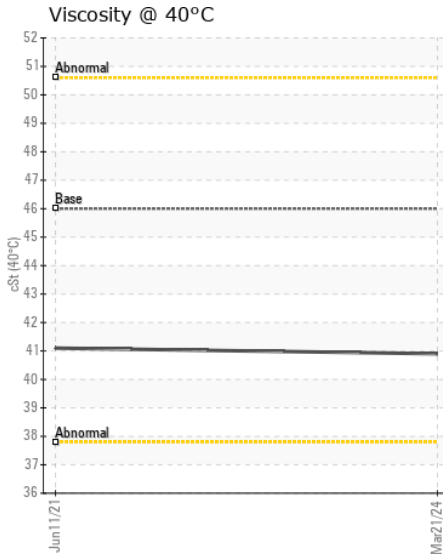
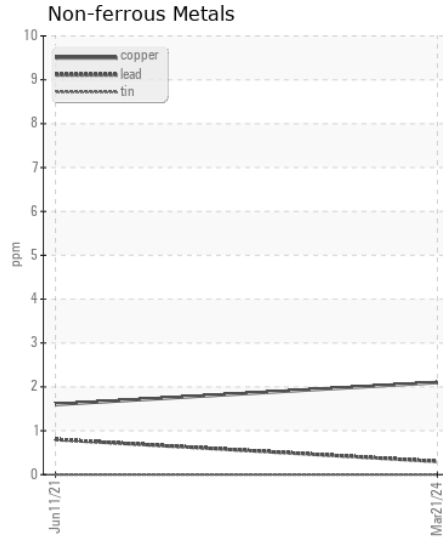
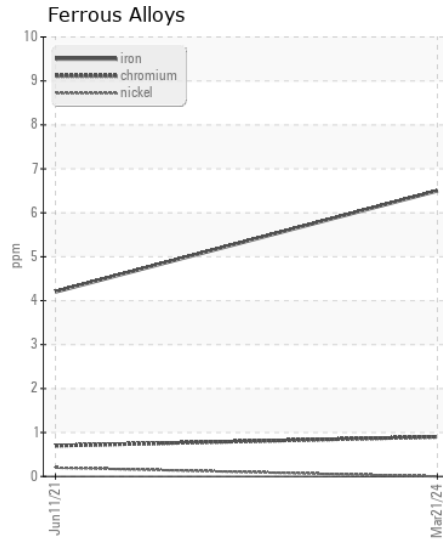
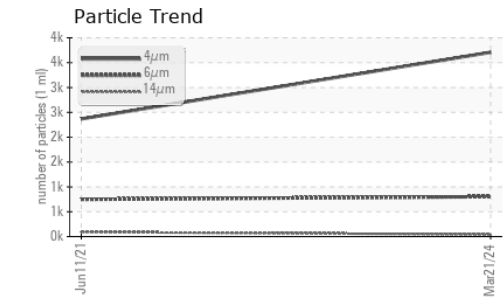
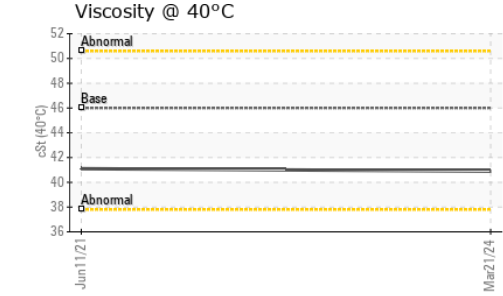
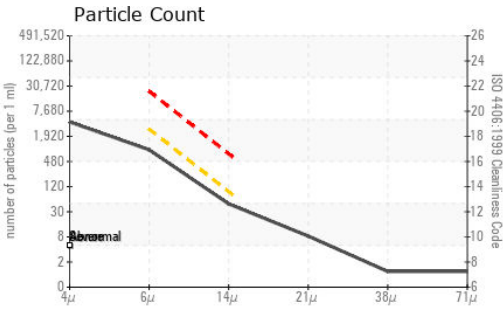
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185(m)	>20	4	5	---
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	---
Water		WC Method	>0.1	NEG	NEG	---
Particles >4µm		ASTM D7647		3708	2368	---
Particles >6µm		ASTM D7647	>2500	803	748	---
Particles >14µm		ASTM D7647	>80	41	92	---
Particles >21µm		ASTM D7647	>20	7	23	---
Particles >38µm		ASTM D7647	>4	1	0	---
Particles >71µm		ASTM D7647	>3	1	0	---
Oil Cleanliness		ISO 4406 (c)	>-/18/13	19/17/13	18/17/14	---
Silt	scalar	Visual*	NONE	NONE	NONE	---
Debris	scalar	Visual*	NONE	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.1	NEG	NEG	---

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		1	<1	---
Boron	ppm	ASTM D5185(m)	14	<1	<1	---
Barium	ppm	ASTM D5185(m)	0.0	0	0	---
Molybdenum	ppm	ASTM D5185(m)	0.0	0	0	---
Manganese	ppm	ASTM D5185(m)	0.0	0	0	---
Magnesium	ppm	ASTM D5185(m)	2.6	2	<1	---
Calcium	ppm	ASTM D5185(m)	49	50	52	---
Phosphorus	ppm	ASTM D5185(m)	354	337	336	---
Zinc	ppm	ASTM D5185(m)	419	432	436	---
Sulfur	ppm	ASTM D5185(m)	3719	2440	2676	---
Visc @ 40°C	cSt	ASTM D7279(m)	46	40.9	41.1	---



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : VCP394570 **Received** : 02 Apr 2024
Lab Number : 02626096 **Tested** : 03 Apr 2024
Unique Number : 5759228 **Diagnosed** : 03 Apr 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: PrtCount)

To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.

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