



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[A12260]
Machine Id
VOLVO L110H 632556
Component
Hydraulic System
Fluid
MOBIL HYDRAULIC OIL AW 46 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP446198	VCP430368	---
Sample Date		Client Info		07 Mar 2024	05 Oct 2023	---
Machine Age	hrs	Client Info		2290	1195	---
Oil Age	hrs	Client Info		2290	1195	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Changed	Not Changed	---
Filter Changed		Client Info		Changed	Not Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	4	4	---
Chromium	ppm	ASTM D5185m	>20	1	<1	---
Nickel	ppm	ASTM D5185m	>10	0	0	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>20	0	0	---
Lead	ppm	ASTM D5185m	>20	<1	0	---
Copper	ppm	ASTM D5185m	>150	2	1	---
Tin	ppm	ASTM D5185m	>20	<1	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

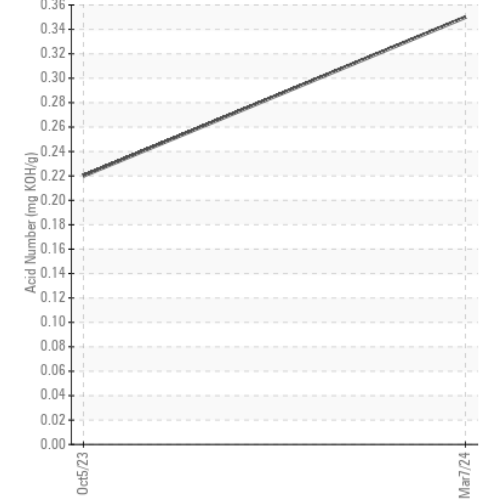
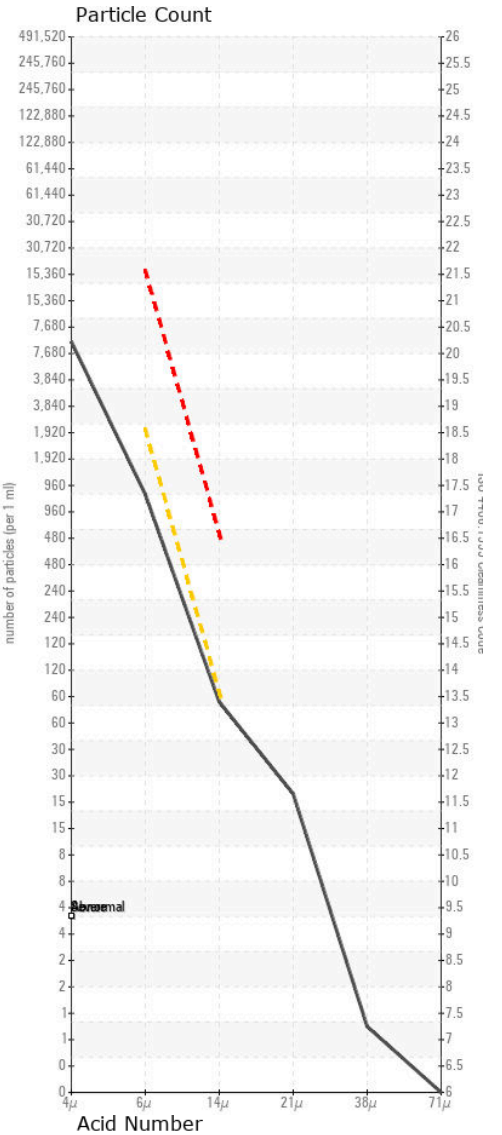
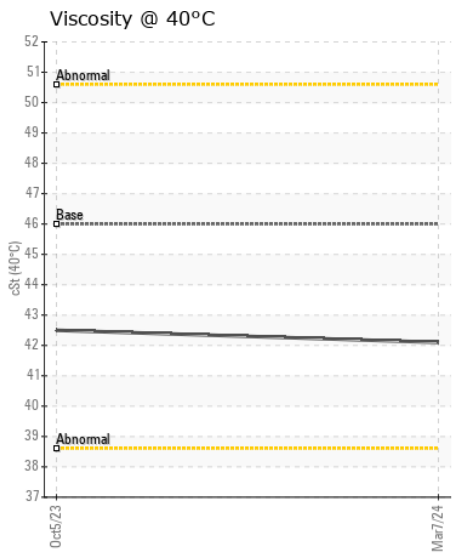
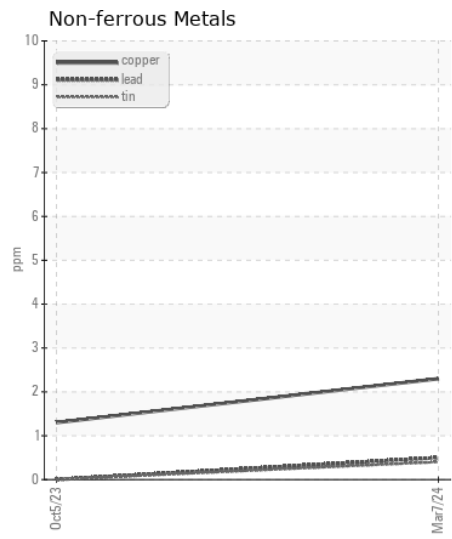
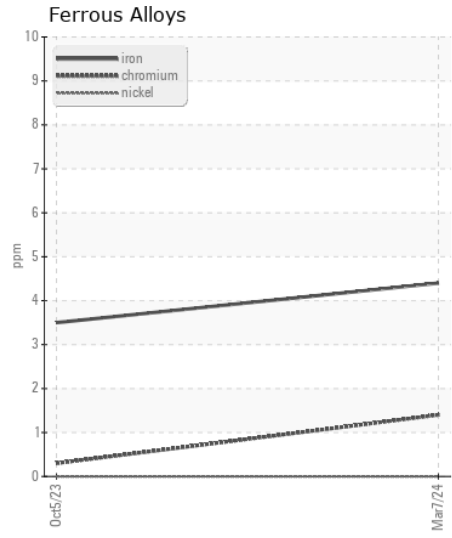
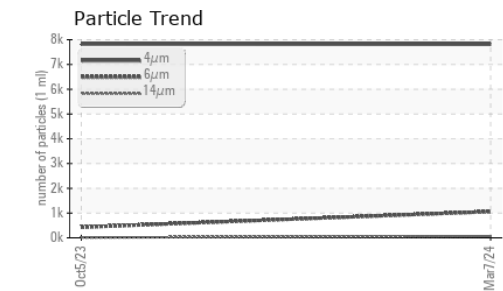
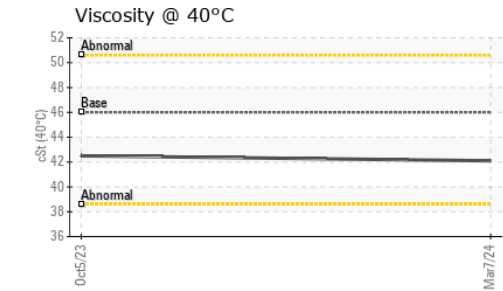
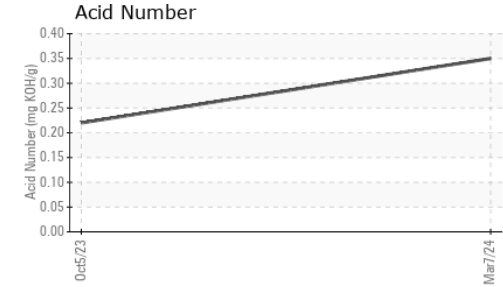
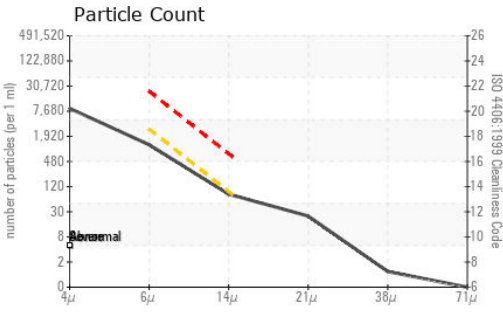
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>20	2	1	---
Potassium	ppm	ASTM D5185m	>20	4	2	---
Water		WC Method	>0.1	NEG	NEG	---
Particles >4µm		ASTM D7647		7817	7824	---
Particles >6µm		ASTM D7647	>2500	1059	429	---
Particles >14µm		ASTM D7647	>80	70	11	---
Particles >21µm		ASTM D7647	>20	21	3	---
Particles >38µm		ASTM D7647	>4	1	0	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>-/18/13	20/17/13	20/16/11	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	LIGHT	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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		2	1	---
Boron	ppm	ASTM D5185m		0	0	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		<1	<1	---
Manganese	ppm	ASTM D5185m		<1	0	---
Magnesium	ppm	ASTM D5185m		5	4	---
Calcium	ppm	ASTM D5185m		68	66	---
Phosphorus	ppm	ASTM D5185m		338	344	---
Zinc	ppm	ASTM D5185m		430	441	---
Sulfur	ppm	ASTM D5185m		2365	2081	---
Acid Number (AN)	mg KOH/g	ASTM D8045		0.35	0.22	---
Visc @ 40°C	cSt	ASTM D445	46	42.1	42.5	---



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP446198 **Received** : 20 Mar 2024
Lab Number : 06123569 **Tested** : 24 Mar 2024
Unique Number : 10937720 **Diagnosed** : 24 Mar 2024 - Wes Davis
Test Package : MOB 2

HMR ASSOCIATES
 PO BOX 485
 TOUGHKENAMON, PA
 US 19374
 Contact: SERVICE MANAGER

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)