



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
VOLVO L110H 05632247
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		VCP443991	VCP436460	VCP438672
Sample Date		Client Info		11 Jun 2024	09 Apr 2024	12 Feb 2024
Machine Age	hrs	Client Info		7473	6919	0
Oil Age	hrs	Client Info		0	1523	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Changed
Filter Changed		Client Info		N/A	Changed	Changed
Sample Status				NORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	3	4	3
Chromium	ppm	ASTM D5185m	>20	3	2	2
Nickel	ppm	ASTM D5185m	>10	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	0	1
Lead	ppm	ASTM D5185m	>20	2	<1	2
Copper	ppm	ASTM D5185m	>150	5	4	4
Tin	ppm	ASTM D5185m	>20	0	<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

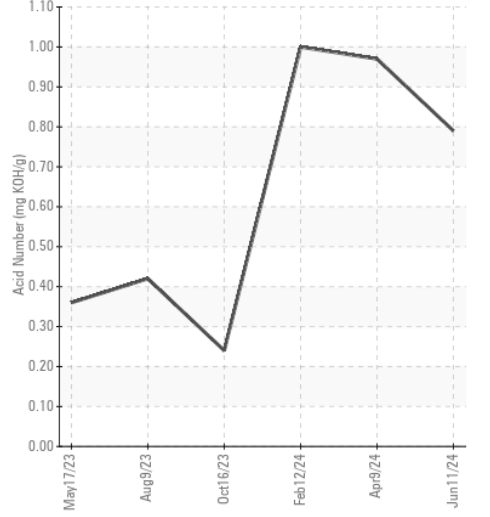
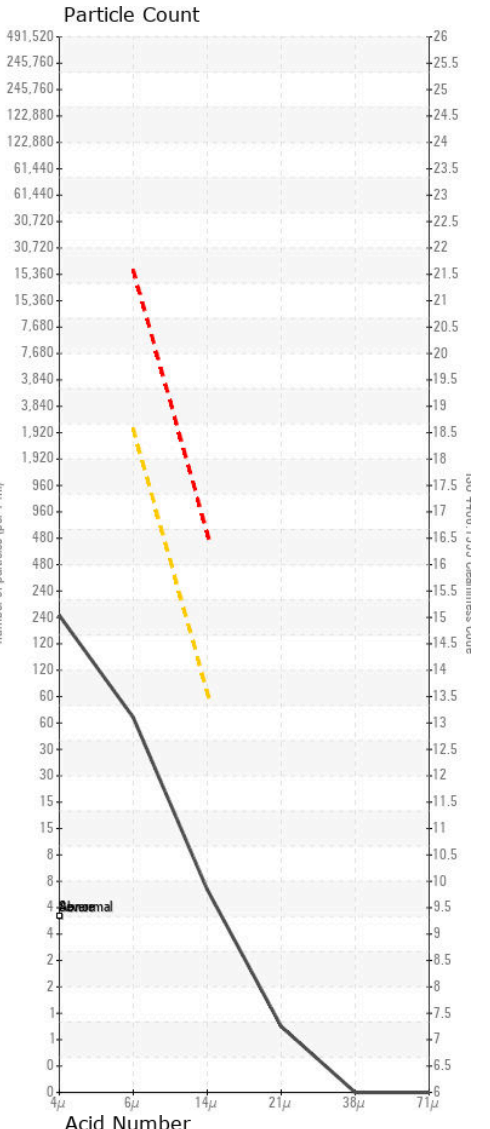
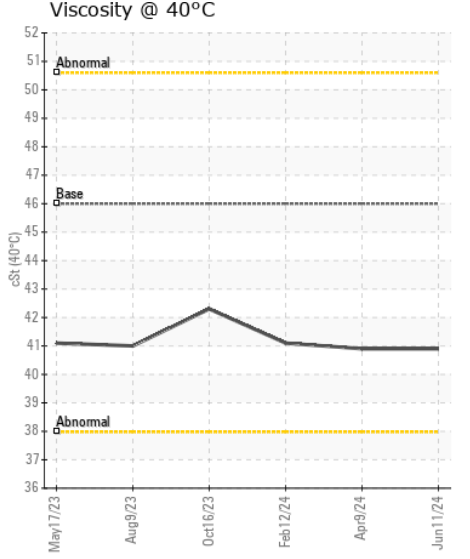
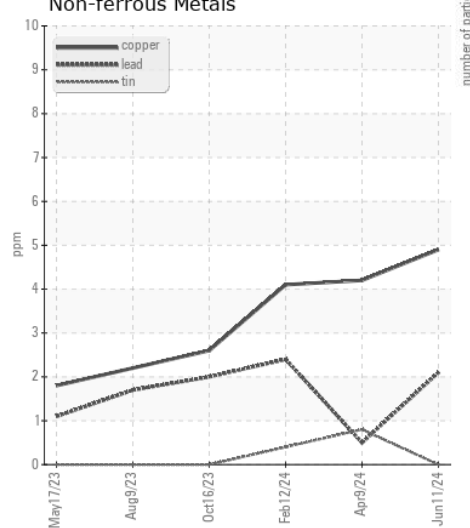
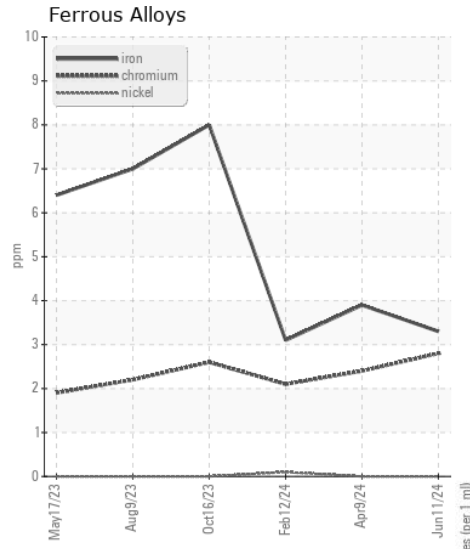
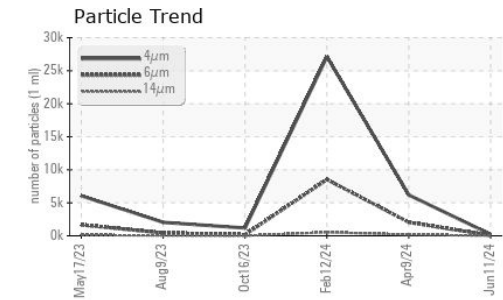
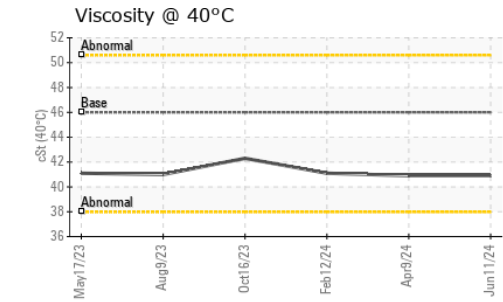
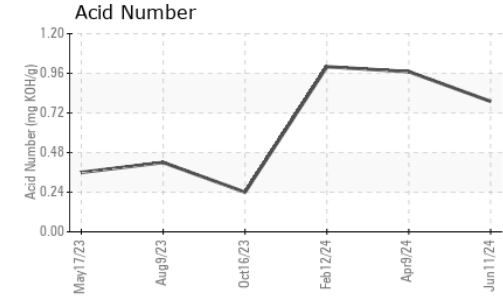
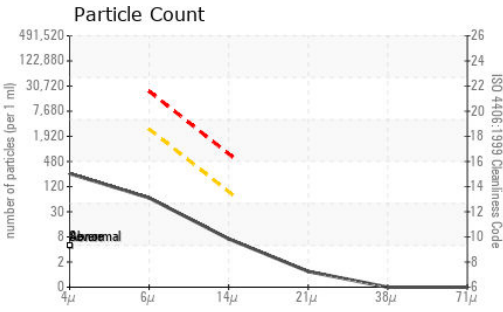
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>20	4	3	6
Potassium	ppm	ASTM D5185m	>20	2	<1	3
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647		217	6189	27122
Particles >6µm		ASTM D7647	>2500	57	2049	▲ 8524
Particles >14µm		ASTM D7647	>80	6	▲ 172	▲ 543
Particles >21µm		ASTM D7647	>20	1	▲ 46	▲ 105
Particles >38µm		ASTM D7647	>4	0	2	3
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>-/18/13	15/13/10	▲ 20/18/15	▲ 22/20/16
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
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	>0.1	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		3	4	3
Boron	ppm	ASTM D5185m	14	35	32	38
Barium	ppm	ASTM D5185m	0.0	0	<1	0
Molybdenum	ppm	ASTM D5185m	0.0	45	37	44
Manganese	ppm	ASTM D5185m	0.0	<1	0	<1
Magnesium	ppm	ASTM D5185m	2.6	140	118	137
Calcium	ppm	ASTM D5185m	49	1448	1353	1393
Phosphorus	ppm	ASTM D5185m	354	683	593	688
Zinc	ppm	ASTM D5185m	419	804	627	812
Sulfur	ppm	ASTM D5185m	3719	3088	2699	2646
Acid Number (AN)	mg KOH/g	ASTM D8045		0.79	0.97	1.00
Visc @ 40°C	cSt	ASTM D445	46	40.9	40.9	41.1



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP443991 **Received** : 26 Jun 2024
Lab Number : 06221136 **Tested** : 27 Jun 2024
Unique Number : 11099333 **Diagnosed** : 27 Jun 2024 - Don Baldrige
Test Package : MOB 2

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 US 06460
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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)