



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Machine Id
VOLVO L120H 633400
Component
Hydraulic System
Fluid
VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)

RECOMMENDATION

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP443909	VCP438993	VCP437220
Sample Date		Client Info		13 Jun 2024	12 Apr 2024	20 Feb 2024
Machine Age	hrs	Client Info		3134	0	2033
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Changed
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ATTENTION	NORMAL

WEAR

All component wear rates are normal.

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

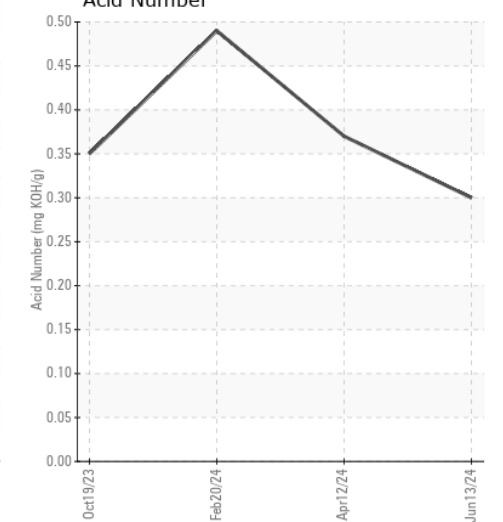
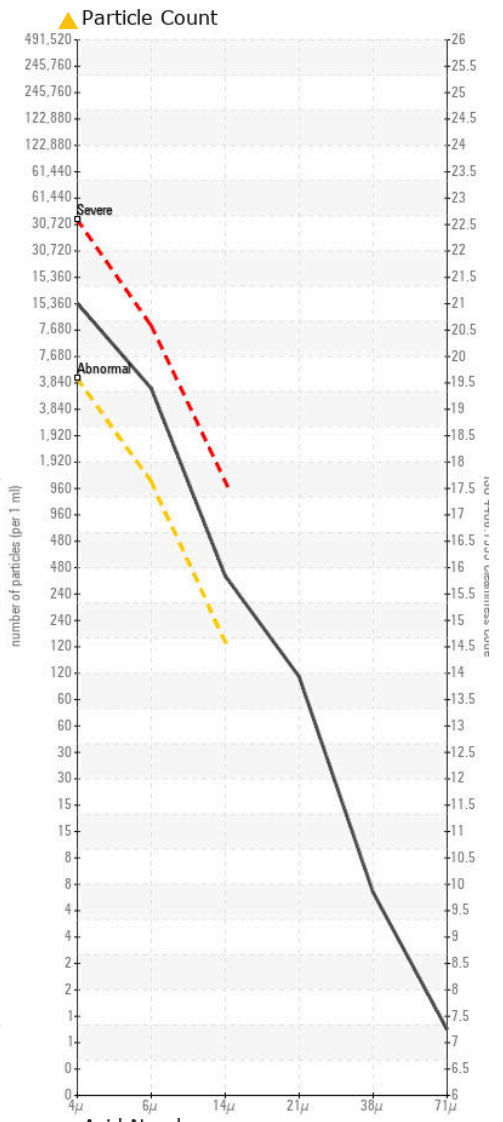
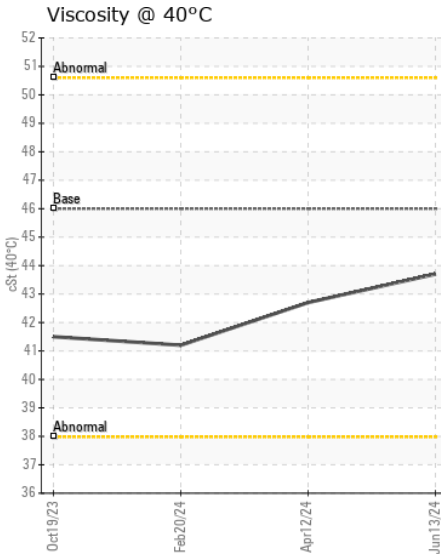
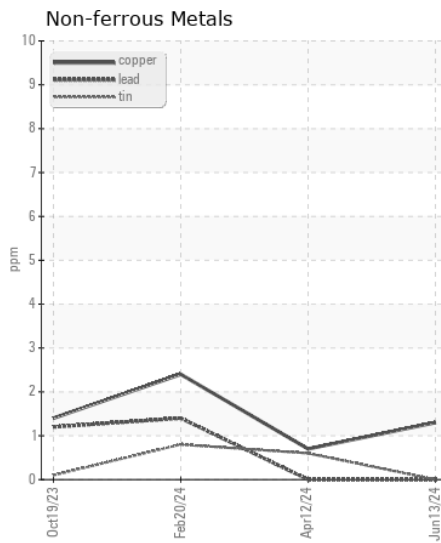
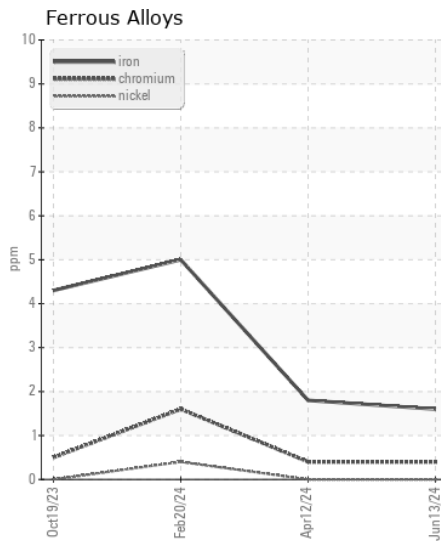
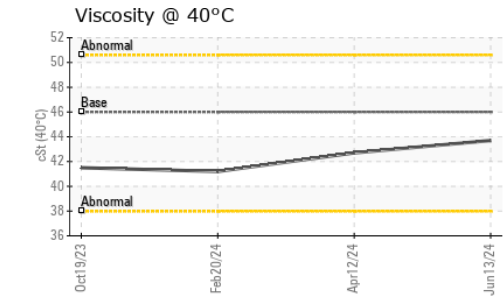
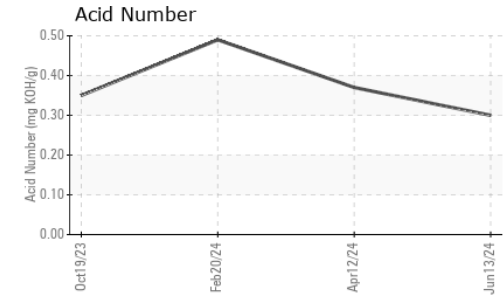
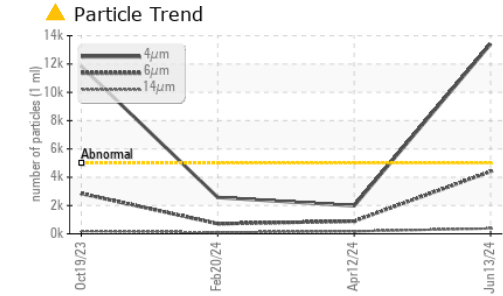
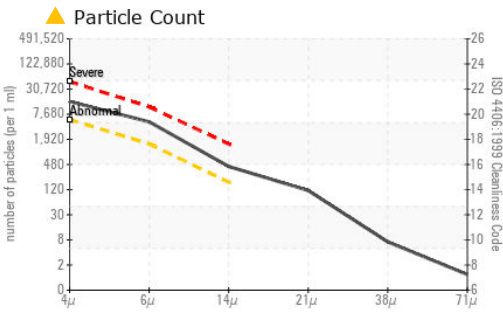
There is a moderate amount of particulates (2 to 100 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	1	<1	3
Potassium	ppm	ASTM D5185m	>20	1	0	2
Water		WC Method	>0.2	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	▲ 13413	1982	2572
Particles >6µm		ASTM D7647	>1300	▲ 4403	891	712
Particles >14µm		ASTM D7647	>160	▲ 379	● 176	101
Particles >21µm		ASTM D7647	>40	▲ 101	● 72	37
Particles >38µm		ASTM D7647	>10	6	8	3
Particles >71µm		ASTM D7647	>3	1	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 21/19/16	● 18/17/15	19/17/14
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	>0.2	NEG	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Sodium	ppm	ASTM D5185m		1	2	0
Boron	ppm	ASTM D5185m	14	5	3	10
Barium	ppm	ASTM D5185m	0.0	0	0	5
Molybdenum	ppm	ASTM D5185m	0.0	6	6	14
Manganese	ppm	ASTM D5185m	0.0	<1	0	<1
Magnesium	ppm	ASTM D5185m	2.6	23	15	39
Calcium	ppm	ASTM D5185m	49	292	266	468
Phosphorus	ppm	ASTM D5185m	354	404	345	371
Zinc	ppm	ASTM D5185m	419	504	393	522
Sulfur	ppm	ASTM D5185m	3719	2581	2229	2256
Acid Number (AN)	mg KOH/g	ASTM D8045		0.30	0.37	0.49
Visc @ 40°C	cSt	ASTM D445	46	43.7	42.7	41.2



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP443909 **Received** : 26 Jun 2024
Lab Number : 06221137 **Tested** : 27 Jun 2024
Unique Number : 11099334 **Diagnosed** : 27 Jun 2024 - Wes Davis
Test Package : MOB 2

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)

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