



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area

[587216]

Machine Id

VOLVO L90H 624518

Component

Hydraulic System

Fluid

VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)

RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP454586	VCP446386	VCP402837
Sample Date		Client Info		14 Jun 2024	12 Apr 2024	22 Sep 2023
Machine Age	hrs	Client Info		14969	14537	13591
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changed	Changed	N/A
Filter Changed		Client Info		Not Changed	Changed	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	<1	5	3
Chromium	ppm	ASTM D5185m	>20	<1	1	0
Nickel	ppm	ASTM D5185m	>10	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	0	0	<1
Lead	ppm	ASTM D5185m	>20	0	<1	<1
Copper	ppm	ASTM D5185m	>20	<1	2	12
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

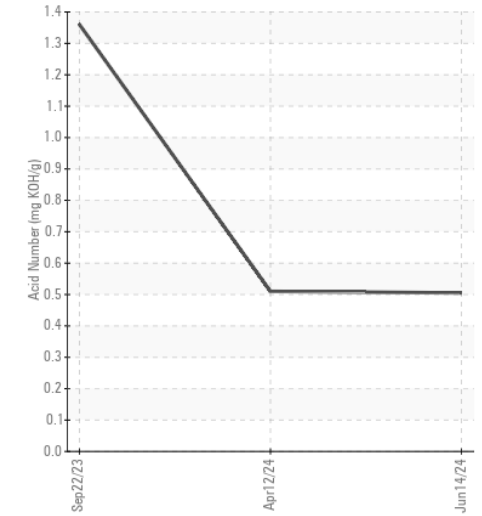
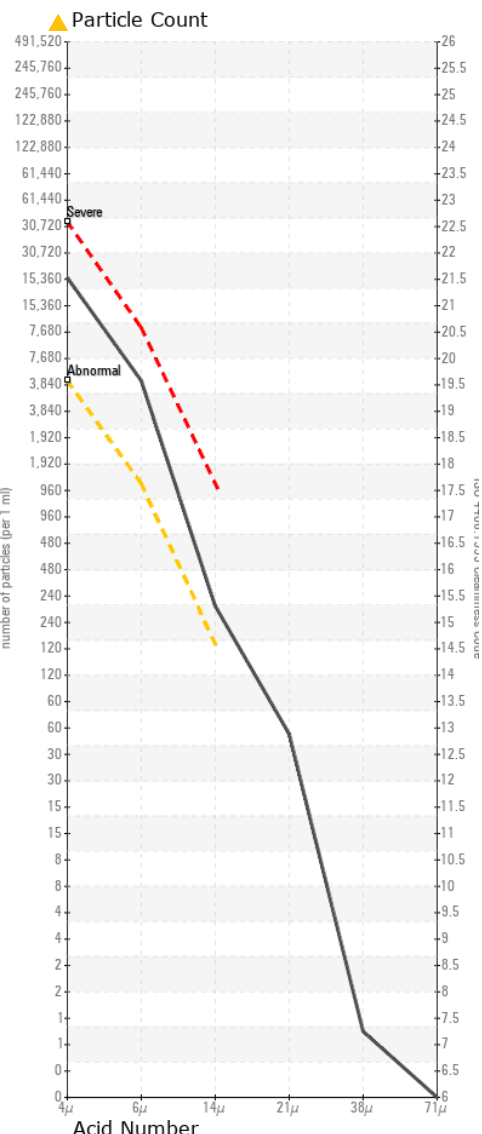
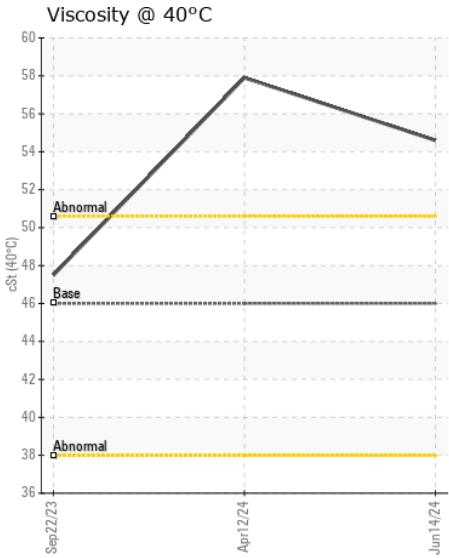
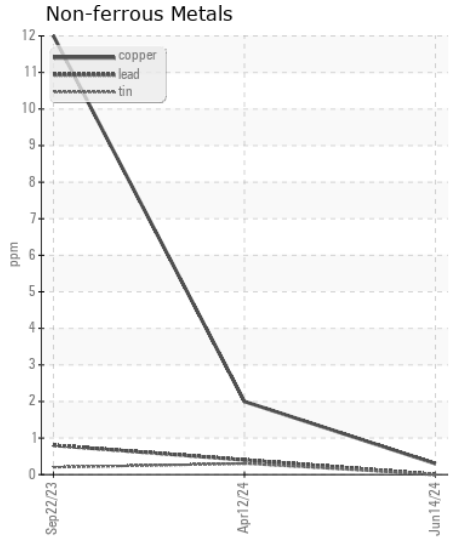
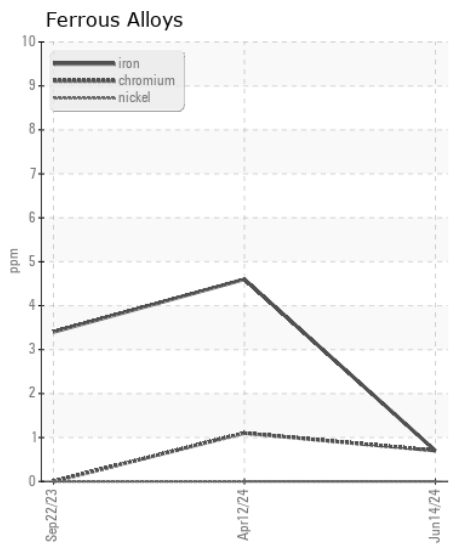
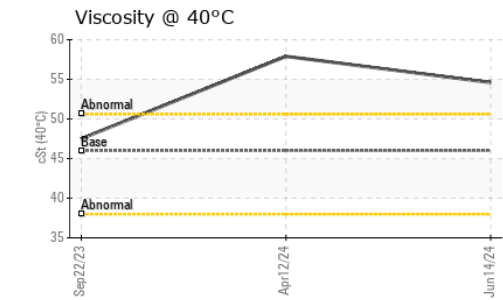
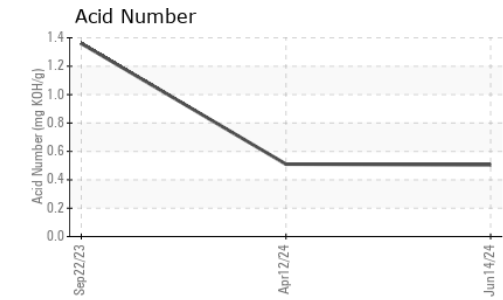
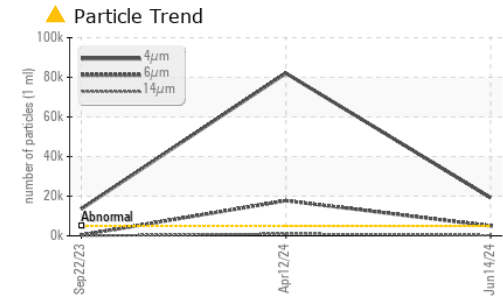
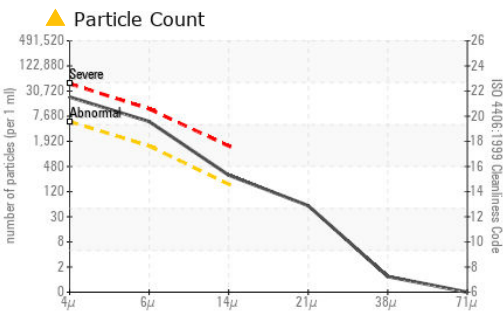
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>20	2	4	3
Potassium	ppm	ASTM D5185m	>20	<1	3	5
Water		WC Method	>0.2	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	▲ 19248	▲ 82059	▲ 13561
Particles >6µm		ASTM D7647	>1300	▲ 4997	▲ 17740	397
Particles >14µm		ASTM D7647	>160	▲ 262	▲ 1013	15
Particles >21µm		ASTM D7647	>40	▲ 49	▲ 313	4
Particles >38µm		ASTM D7647	>10	1	▲ 16	0
Particles >71µm		ASTM D7647	>3	0	1	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 21/19/15	▲ 24/21/17	▲ 21/16/11
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	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		1	2	<1
Boron	ppm	ASTM D5185m	14	10	8	0
Barium	ppm	ASTM D5185m	0.0	0	0	0
Molybdenum	ppm	ASTM D5185m	0.0	3	5	3
Manganese	ppm	ASTM D5185m	0.0	0	<1	<1
Magnesium	ppm	ASTM D5185m	2.6	25	26	16
Calcium	ppm	ASTM D5185m	49	232	213	2209
Phosphorus	ppm	ASTM D5185m	354	415	446	906
Zinc	ppm	ASTM D5185m	419	498	492	1136
Sulfur	ppm	ASTM D5185m	3719	1965	2033	3172
Acid Number (AN)	mg KOH/g	ASTM D8045		0.505	0.51	1.36
Visc @ 40°C	cSt	ASTM D445	46	54.6	57.9	47.5



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP454586 **Received** : 27 Jun 2024
Lab Number : 06222278 **Tested** : 01 Jul 2024
Unique Number : 11100475 **Diagnosed** : 01 Jul 2024 - Jonathan Hester
Test Package : MOB 2

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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)