



VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ATTENTION
FLUID CONDITION	NORMAL



Machine Id
VOLVO L120H 632105
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		VCP444342	VCP424437	VCP386130
Sample Date		Client Info		24 Apr 2024	07 Jun 2023	14 Nov 2022
Machine Age	hrs	Client Info		19559	18030	16686
Oil Age	hrs	Client Info		0	4000	2000
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Changed	Not Changd
Sample Status				ATTENTION	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	11	6	7
Chromium	ppm	ASTM D5185m	>20	4	0	0
Nickel	ppm	ASTM D5185m	>10	<1	0	0
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	3	0	0
Copper	ppm	ASTM D5185m	>20	4	6	<1
Tin	ppm	ASTM D5185m	>20	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

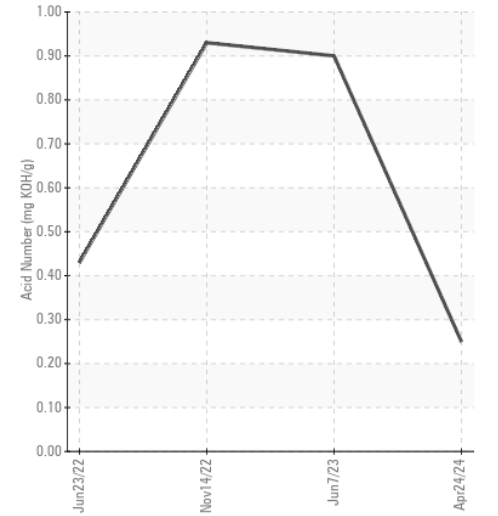
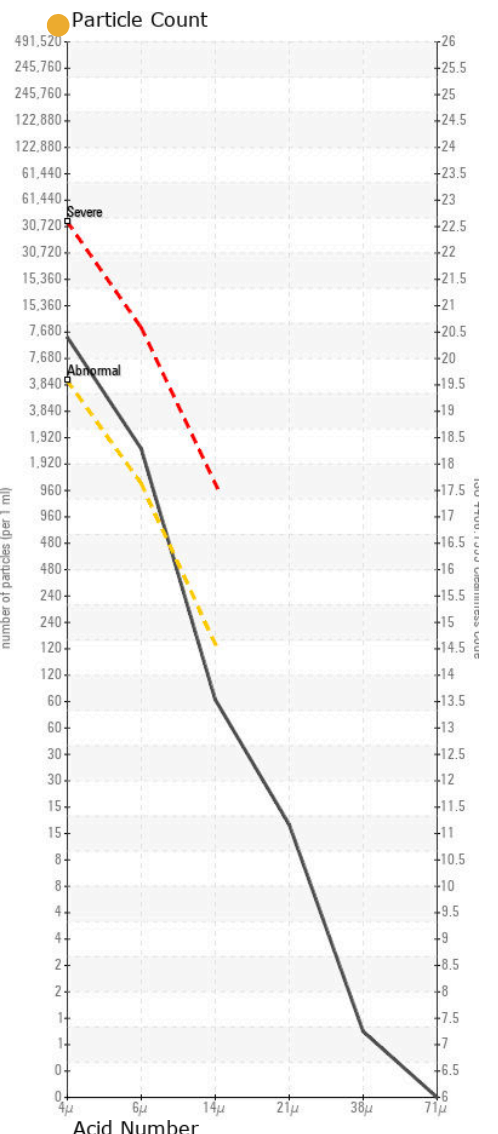
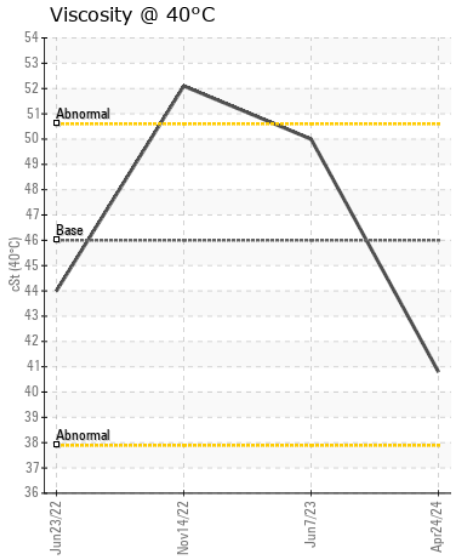
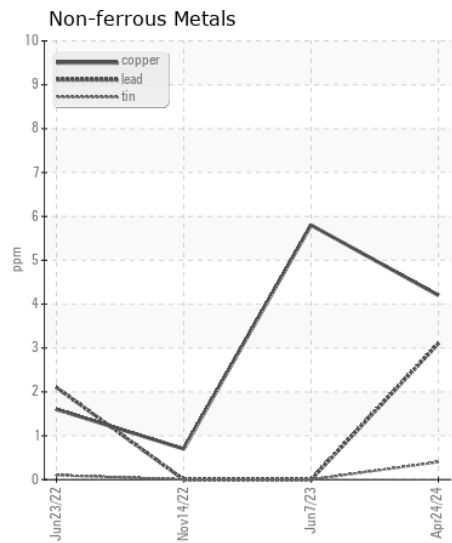
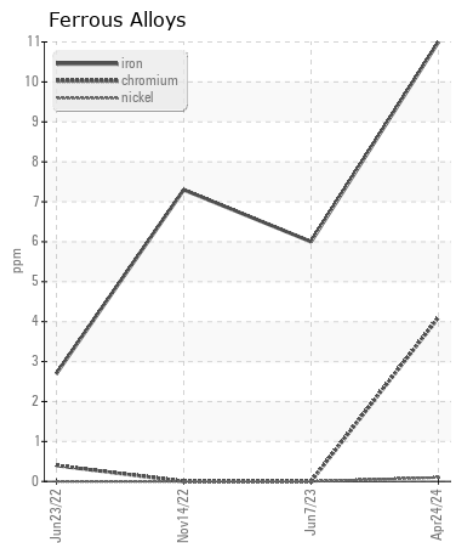
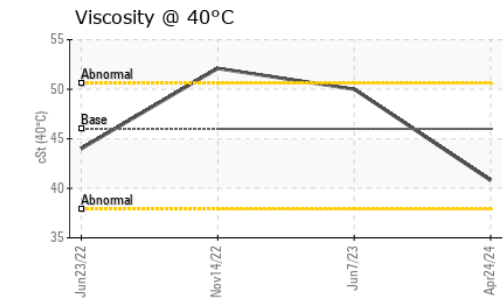
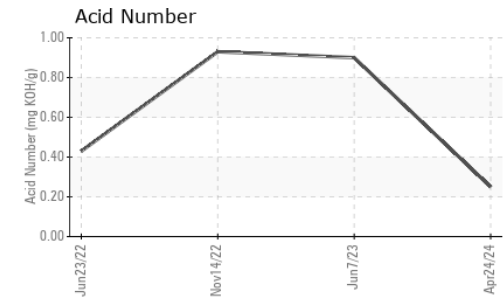
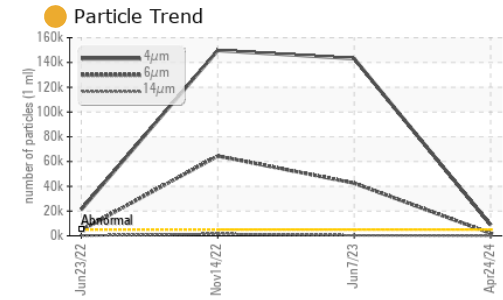
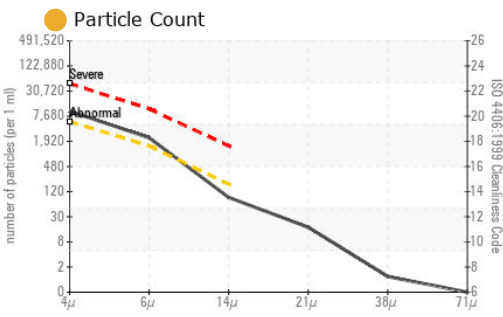
There is a light amount of silt (particulates < 14 microns in size) present in the oil.

Silicon	ppm	ASTM D5185m	>20	6	16	17
Potassium	ppm	ASTM D5185m	>20	<1	0	0
Water		WC Method	>0.2	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	8835	143098	149703
Particles >6µm		ASTM D7647	>1300	2050	42521	64478
Particles >14µm		ASTM D7647	>160	77	391	1584
Particles >21µm		ASTM D7647	>40	15	30	240
Particles >38µm		ASTM D7647	>10	1	2	21
Particles >71µm		ASTM D7647	>3	0	0	1
Oil Cleanliness		ISO 4406 (c)	>19/17/14	20/18/13	24/23/16	24/23/18
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 condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		2	2	1
Boron	ppm	ASTM D5185m	14	<1	106	113
Barium	ppm	ASTM D5185m	0.0	0	0	0
Molybdenum	ppm	ASTM D5185m	0.0	3	<1	<1
Manganese	ppm	ASTM D5185m	0.0	0	0	0
Magnesium	ppm	ASTM D5185m	2.6	12	19	20
Calcium	ppm	ASTM D5185m	49	103	3047	3576
Phosphorus	ppm	ASTM D5185m	354	353	1009	1071
Zinc	ppm	ASTM D5185m	419	459	1274	1351
Sulfur	ppm	ASTM D5185m	3719	2780	4709	4761
Acid Number (AN)	mg KOH/g	ASTM D8045		0.25	0.90	0.93
Visc @ 40°C	cSt	ASTM D445	46	40.8	50.0	52.1



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP444342 **Received** : 30 May 2024
Lab Number : 06195351 **Tested** : 31 May 2024
Unique Number : 11057474 **Diagnosed** : 31 May 2024 - Wes Davis
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)