



# VOLVO

## OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area  
**[438237]**  
Machine Id  
**VOLVO L120H 632356**  
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		VCP432219	VCP354574	VCP252427
Sample Date		Client Info		11 Jan 2024	12 Aug 2022	10 Aug 2019
Machine Age	hrs	Client Info		10492	8194	3101
Oil Age	hrs	Client Info		0	0	3101
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		N/A	Changed	N/A
Sample Status				ABNORMAL	ATTENTION	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	0	8	11
Chromium	ppm	ASTM D5185m	>20	0	3	4
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	0	<1	<1
Lead	ppm	ASTM D5185m	>20	0	<1	3
Copper	ppm	ASTM D5185m	>150	0	3	6
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

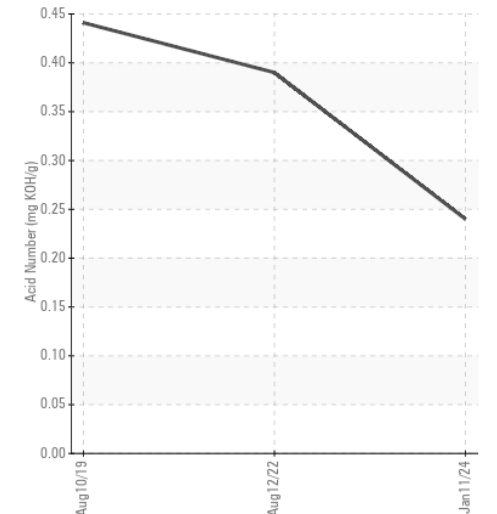
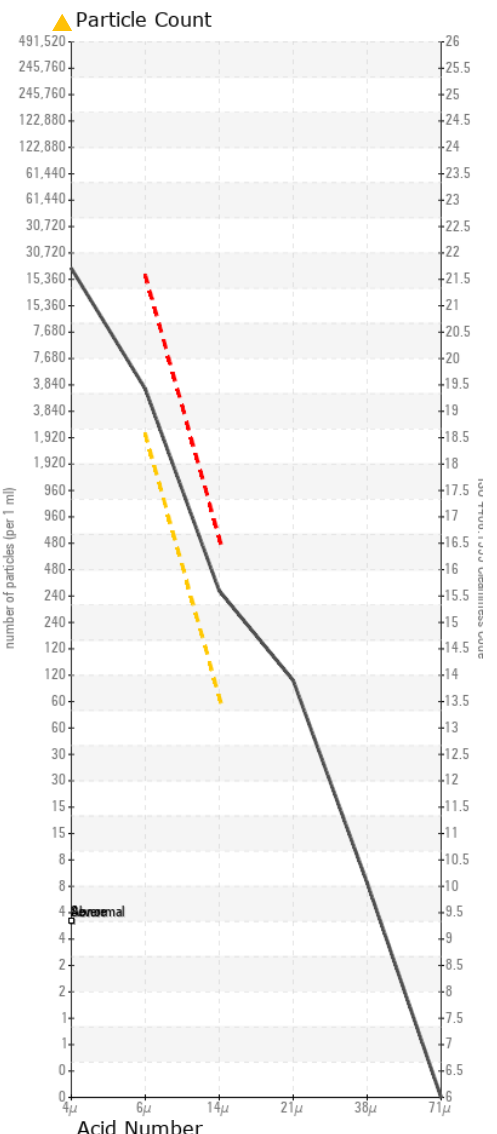
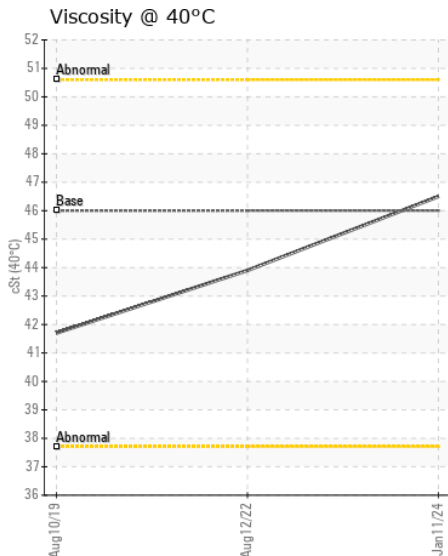
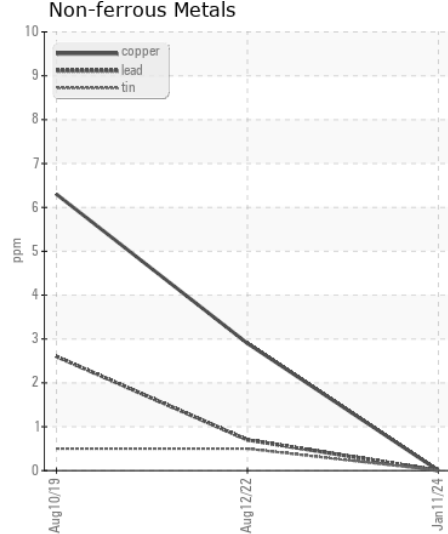
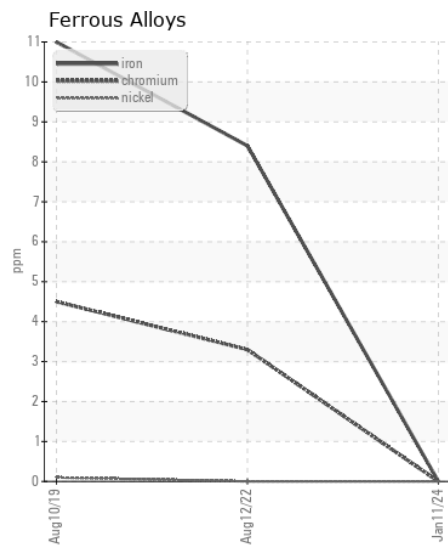
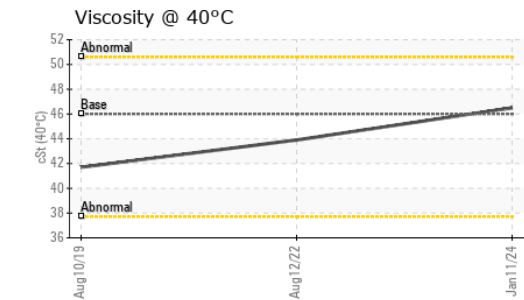
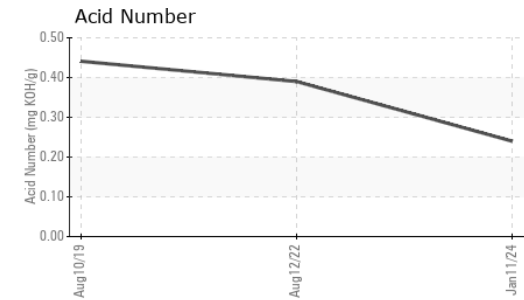
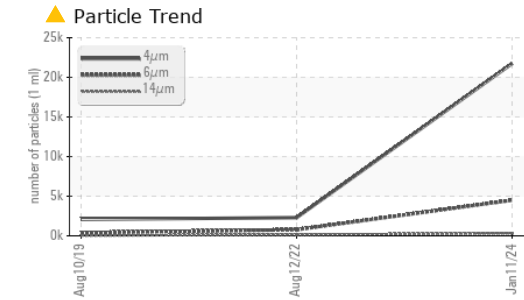
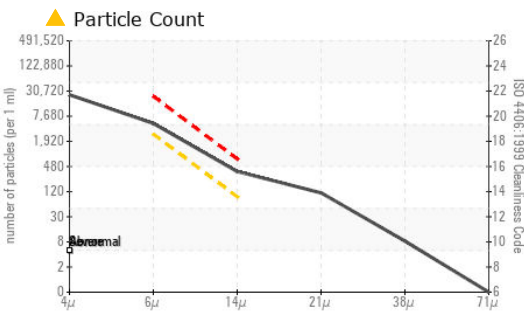
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>20	<1	2	3
Potassium	ppm	ASTM D5185m	>20	0	0	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647		21743	2296	2078
Particles >6µm		ASTM D7647	>2500	▲ 4494	775	391
Particles >14µm		ASTM D7647	>80	▲ 320	▲ 145	25
Particles >21µm		ASTM D7647	>20	▲ 99	▲ 32	9
Particles >38µm		ASTM D7647	>4	▲ 7	2	1
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>-/18/13	▲ 22/19/15	▲ 18/17/14	18/16/12
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	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	>0.1	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		<1	4	5
Boron	ppm	ASTM D5185m	14	0	5	2
Barium	ppm	ASTM D5185m	0.0	0	0	0
Molybdenum	ppm	ASTM D5185m	0.0	0	3	1
Manganese	ppm	ASTM D5185m	0.0	0	0	<1
Magnesium	ppm	ASTM D5185m	2.6	0	12	5
Calcium	ppm	ASTM D5185m	49	53	106	100
Phosphorus	ppm	ASTM D5185m	354	331	325	352
Zinc	ppm	ASTM D5185m	419	430	402	454
Sulfur	ppm	ASTM D5185m	3719	1990	2312	5712
Acid Number (AN)	mg KOH/g	ASTM D8045		0.24	0.39	0.441
Visc @ 40°C	cSt	ASTM D445	46	46.5	43.9	41.7



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP432219 **Received** : 16 Jan 2024  
**Lab Number** : 06060976 **Diagnosed** : 17 Jan 2024  
**Unique Number** : 10832358 **Diagnostician** : Jonathan Hester  
**Test Package** : MOB 2

**RECYCLE AMERICA**  
 12100 YOUNG PINE RD  
 ORLANDO, FL  
 US 32829  
 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)

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