



# VOLVO

## OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL



Area  
**[SPM688079 US STEEL]**  
 Machine Id  
**VOLVO A25G 752203**  
 Component  
**Hydraulic System**  
 Fluid  
**VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)**

### RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP427319	VCP440590	VCP355914
Sample Date		Client Info		19 Mar 2024	18 Oct 2023	29 Mar 2022
Machine Age	hrs	Client Info		5160	8138	3706
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Changed	Changed
Sample Status				ABNORMAL	ATTENTION	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>50	8	17	14
Chromium	ppm	ASTM D5185m	>20	4	7	4
Nickel	ppm	ASTM D5185m	>10	0	1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>20	<1	1	2
Lead	ppm	ASTM D5185m	>20	<1	2	2
Copper	ppm	ASTM D5185m	>150	<1	2	6
Tin	ppm	ASTM D5185m	>20	<1	<1	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	LIGHT	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

### CONTAMINATION

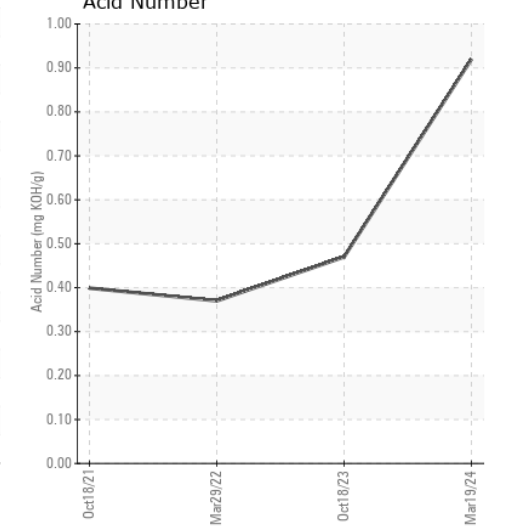
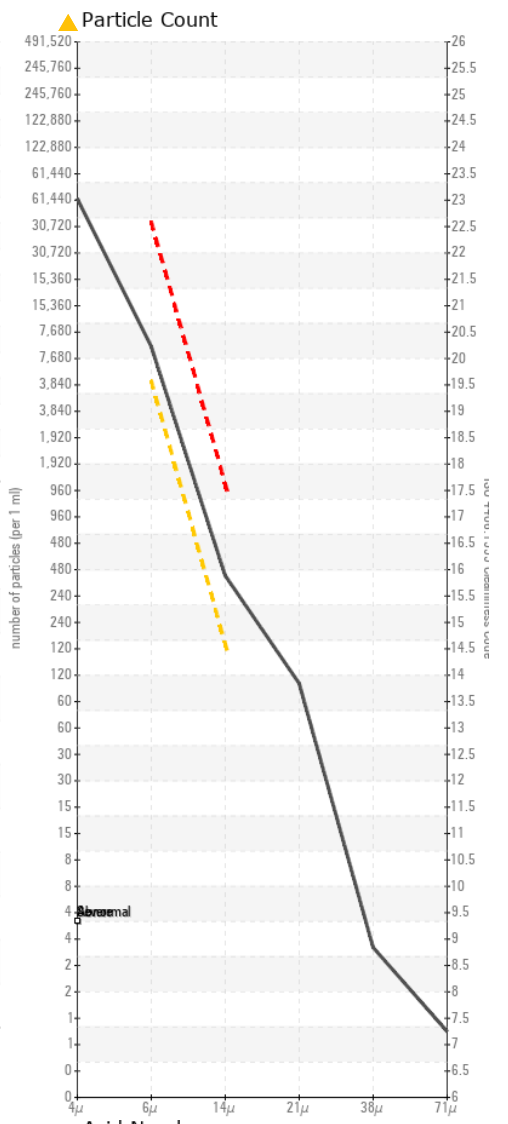
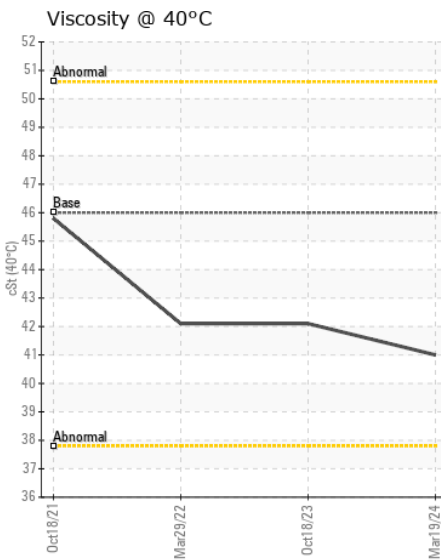
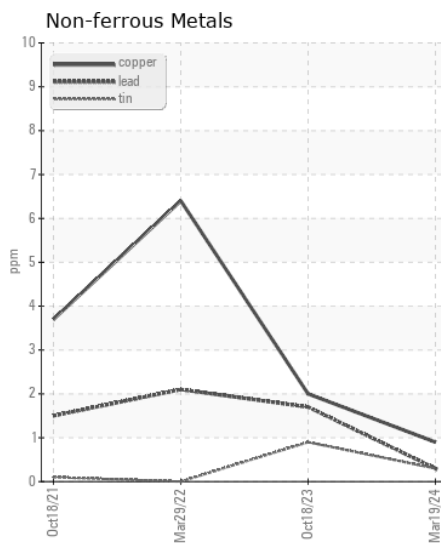
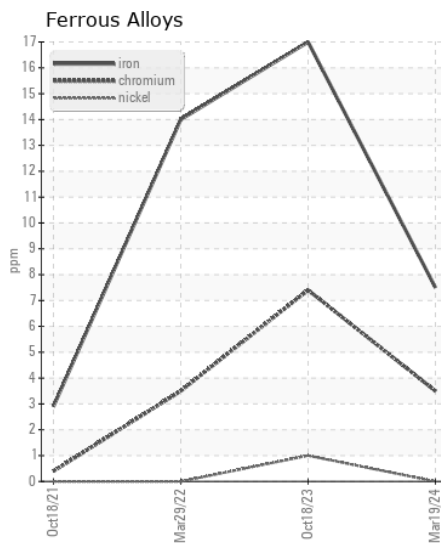
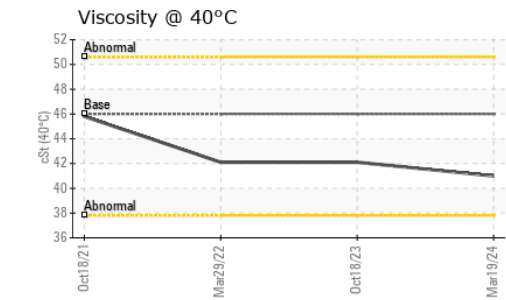
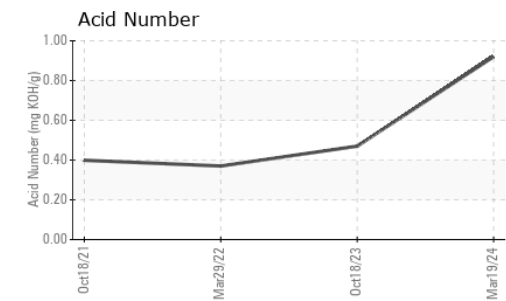
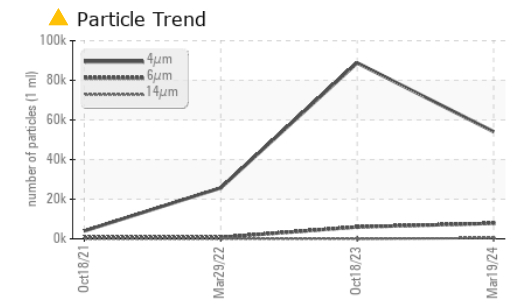
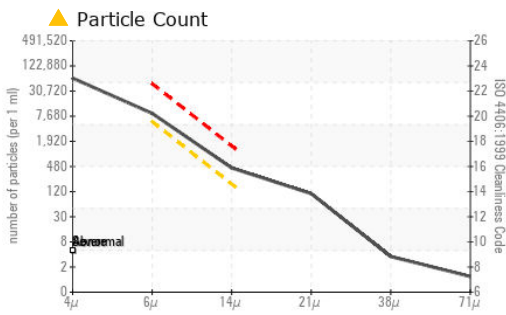
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>20	3	3	6
Potassium	ppm	ASTM D5185m	>20	2	2	2
Water		WC Method	>0.1	NEG	NEG	NEG
Particles >4µm		ASTM D7647		54102	88790	25701
Particles >6µm		ASTM D7647	>5000	▲ 7817	● 5990	712
Particles >14µm		ASTM D7647	>160	▲ 390	25	35
Particles >21µm		ASTM D7647	>40	▲ 95	5	10
Particles >38µm		ASTM D7647	>10	3	0	1
Particles >71µm		ASTM D7647	>3	1	0	0
Oil Cleanliness		ISO 4406 (c)	>-/19/14	▲ 23/20/16	● 24/20/12	22/17/12
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	VLITE
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		4	2	19
Boron	ppm	ASTM D5185m	14	102	28	8
Barium	ppm	ASTM D5185m	0.0	0	0	0
Molybdenum	ppm	ASTM D5185m	0.0	8	2	1
Manganese	ppm	ASTM D5185m	0.0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	2.6	10	7	15
Calcium	ppm	ASTM D5185m	49	767	292	150
Phosphorus	ppm	ASTM D5185m	354	765	557	387
Zinc	ppm	ASTM D5185m	419	893	636	500
Sulfur	ppm	ASTM D5185m	3719	2706	2549	1686
Acid Number (AN)	mg KOH/g	ASTM D8045		0.92	0.47	0.37
Visc @ 40°C	cSt	ASTM D445	46	41.0	42.1	42.1



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP427319 **Received** : 19 Apr 2024  
**Lab Number** : 06154292 **Tested** : 22 Apr 2024  
**Unique Number** : 10989715 **Diagnosed** : 23 Apr 2024 - Don Baldrige  
**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)