



# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Area  
**[8-388971]**  
 Machine Id  
**16-8116**  
 Component  
**Hydraulic System**  
 Fluid  
**VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>VCP383335</b>	VCP380386	---
Sample Date		Client Info		<b>20 Dec 2023</b>	24 Jul 2023	---
Machine Age	hrs	Client Info		<b>3022</b>	1928	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Not Changd</b>	Not Changd	---
Filter Changed		Client Info		<b>N/A</b>	Changed	---
Sample Status				<b>NORMAL</b>	ATTENTION	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	<b>6</b>	5	---
Chromium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	---
Nickel	ppm	ASTM D5185(m)	>10	<b>0</b>	<1	---
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	---
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185(m)	>20	<b>1</b>	<1	---
Lead	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	---
Copper	ppm	ASTM D5185(m)	>150	<b>3</b>	2	---
Tin	ppm	ASTM D5185(m)	>20	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	---
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	---

## CONTAMINATION

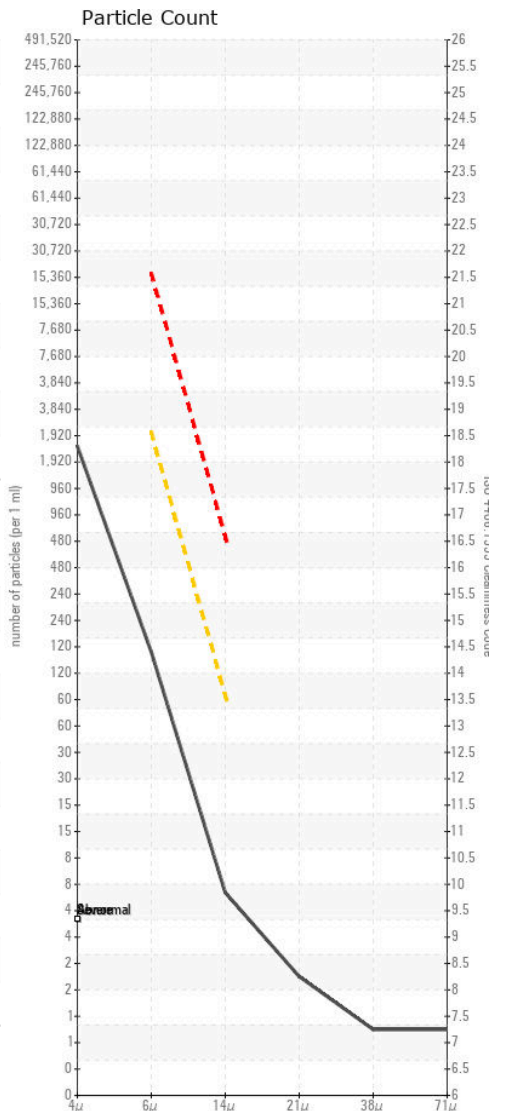
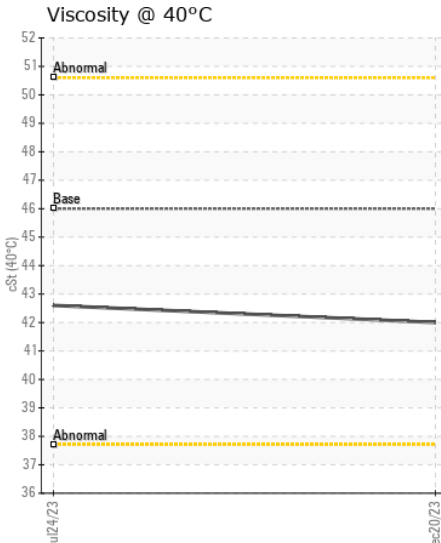
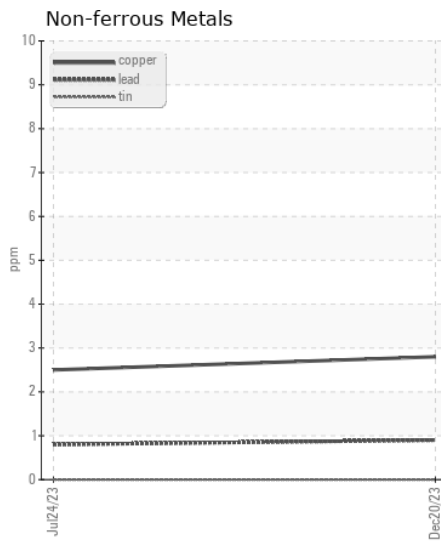
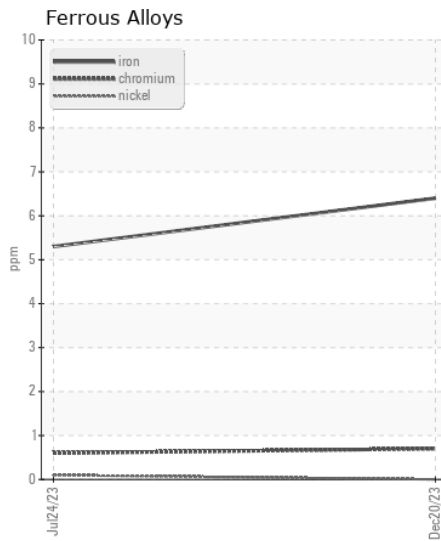
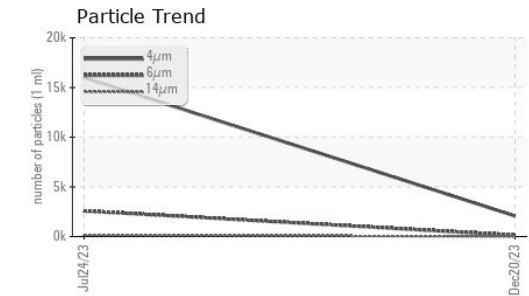
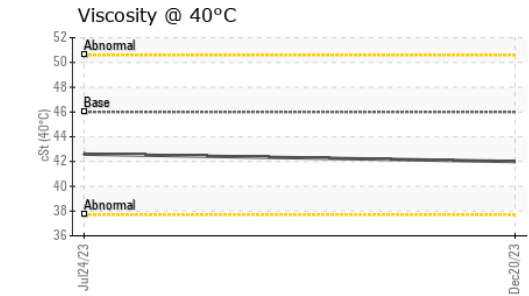
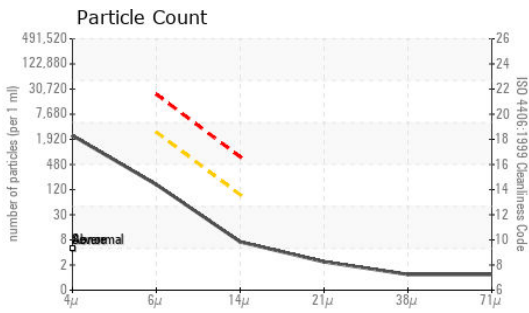
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185(m)	>20	<b>4</b>	4	---
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	<1	---
Water		WC Method	>0.1	<b>NEG</b>	NEG	---
Particles >4µm		ASTM D7647		<b>2069</b>	15996	---
Particles >6µm		ASTM D7647	>2500	<b>140</b>	▲ 2580	---
Particles >14µm		ASTM D7647	>80	<b>6</b>	▲ 147	---
Particles >21µm		ASTM D7647	>20	<b>2</b>	▲ 39	---
Particles >38µm		ASTM D7647	>4	<b>1</b>	1	---
Particles >71µm		ASTM D7647	>3	<b>1</b>	0	---
Oil Cleanliness		ISO 4406 (c)	>-/18/13	<b>18/14/10</b>	▲ 21/19/14	---
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Debris	scalar	Visual*	NONE	<b>NONE</b>	VLITE	---
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	Visual*	>0.1	<b>NEG</b>	NEG	---

## FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	---
Boron	ppm	ASTM D5185(m)	14	<b>&lt;1</b>	<1	---
Barium	ppm	ASTM D5185(m)	0.0	<b>&lt;1</b>	0	---
Molybdenum	ppm	ASTM D5185(m)	0.0	<b>&lt;1</b>	<1	---
Manganese	ppm	ASTM D5185(m)	0.0	<b>0</b>	<1	---
Magnesium	ppm	ASTM D5185(m)	2.6	<b>3</b>	4	---
Calcium	ppm	ASTM D5185(m)	49	<b>66</b>	63	---
Phosphorus	ppm	ASTM D5185(m)	354	<b>336</b>	355	---
Zinc	ppm	ASTM D5185(m)	419	<b>423</b>	431	---
Sulfur	ppm	ASTM D5185(m)	3719	<b>1767</b>	1672	---
Visc @ 40°C	cSt	ASTM D7279(m)	46	<b>42.0</b>	42.6	---



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : VCP383335 **Received** : 22 Jan 2024  
**Lab Number** : 02610297 **Diagnosed** : 23 Jan 2024  
**Unique Number** : 5711383 **Diagnostician** : Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: PrtCount )

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To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.