



# VOLVO

## OIL ANALYSIS REPORT

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

Area  
**REGION OF WATERLOO [401608]**

Machine Id  
**VOLVO L150H 7109**

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>VCP430076</b>	VCP394358	VCP353188
Sample Date		Client Info		<b>23 Apr 2024</b>	25 Oct 2023	20 Apr 2023
Machine Age	hrs	Client Info		<b>3000</b>	2000	999
Oil Age	hrs	Client Info		<b>3000</b>	2000	999
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Changed</b>	Not Changd	Not Changd
Filter Changed		Client Info		<b>Not Changd</b>	Changed	Not Changd
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

### WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185(m)	>50	<b>4</b>	4	2
Chromium	ppm	ASTM D5185(m)	>20	<b>2</b>	1	<1
Nickel	ppm	ASTM D5185(m)	>10	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Aluminum	ppm	ASTM D5185(m)	>20	<b>1</b>	<1	<1
Lead	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	2	1
Copper	ppm	ASTM D5185(m)	>20	<b>3</b>	3	2
Tin	ppm	ASTM D5185(m)	>20	<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
White Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE

### CONTAMINATION

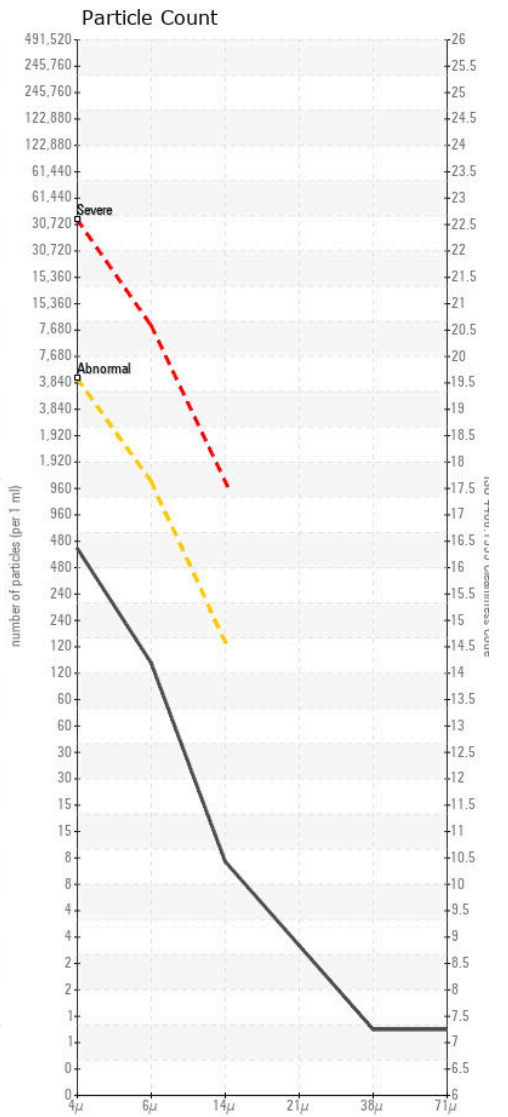
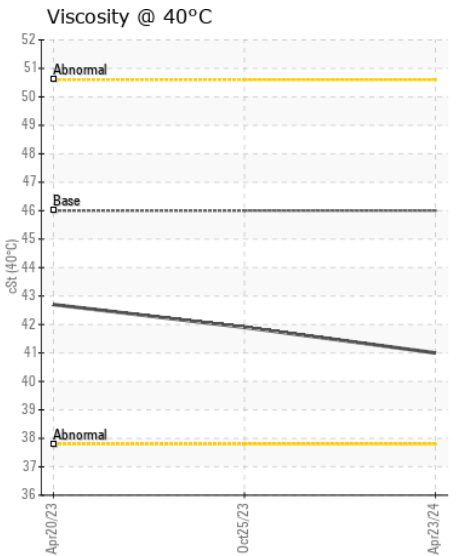
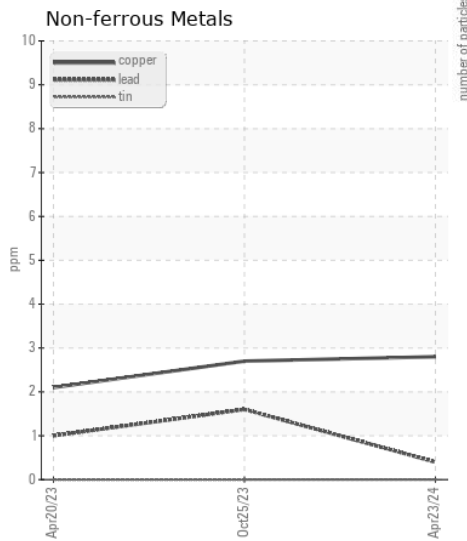
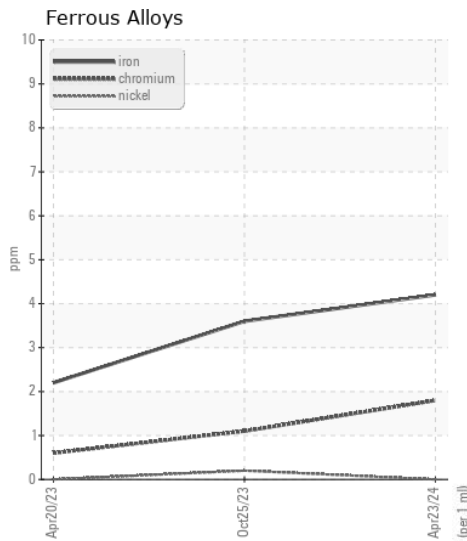
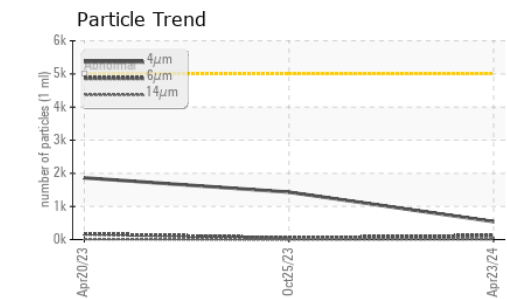
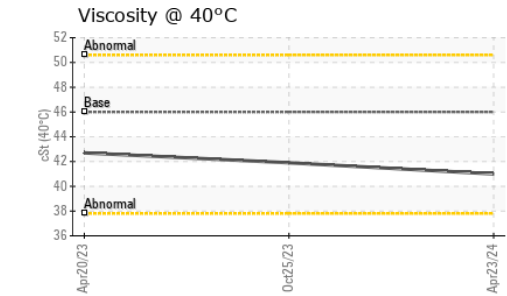
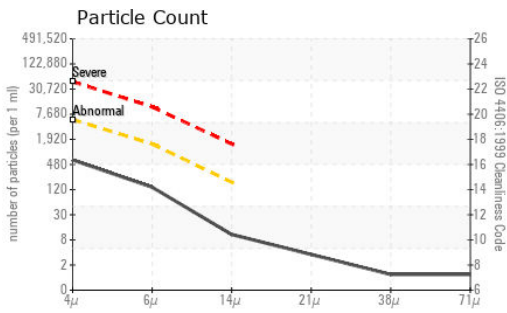
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185(m)	>20	<b>2</b>	3	2
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	0	<1
Water		WC Method	>0.2	<b>NEG</b>	NEG	NEG
Particles >4µm		ASTM D7647	>5000	<b>542</b>	1432	1864
Particles >6µm		ASTM D7647	>1300	<b>121</b>	44	169
Particles >14µm		ASTM D7647	>160	<b>9</b>	3	13
Particles >21µm		ASTM D7647	>40	<b>3</b>	2	3
Particles >38µm		ASTM D7647	>10	<b>1</b>	2	1
Particles >71µm		ASTM D7647	>3	<b>1</b>	1	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>16/14/10</b>	18/13/9	18/15/11
Silt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	Visual*	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	Visual*	>0.2	<b>NEG</b>	NEG	NEG

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185(m)		<b>5</b>	2	2
Boron	ppm	ASTM D5185(m)	14	<b>&lt;1</b>	0	0
Barium	ppm	ASTM D5185(m)	0.0	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185(m)	0.0	<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)	0.0	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185(m)	2.6	<b>2</b>	2	1
Calcium	ppm	ASTM D5185(m)	49	<b>56</b>	55	56
Phosphorus	ppm	ASTM D5185(m)	354	<b>333</b>	338	371
Zinc	ppm	ASTM D5185(m)	419	<b>415</b>	421	433
Sulfur	ppm	ASTM D5185(m)	3719	<b>1321</b>	1326	1394
Visc @ 40°C	cSt	ASTM D7279(m)	46	<b>41.0</b>	41.9	42.7



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : VCP430076 **Received** : 25 Apr 2024  
**Lab Number** : 02631346 **Tested** : 25 Apr 2024  
**Unique Number** : 5772499 **Diagnosed** : 25 Apr 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: PrtCount )

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.

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