



# CONSTRUCTION EQUIPMENT

## D12547 VOLVO L70H 624717 - HYDRAULIC SYSTEM



**Sample No:** VCP418969  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** D12547



### SAMPLE INFORMATION

Sample Number	<b>VCP418969</b>	VCP381281	VCP419532	VCP407379
Sample Date	<b>04 Aug 2023</b>	28 Jun 2023	24 May 2023	17 Apr 2023
Machine Hours	<b>2770</b>	2570	2349	2217
Oil Hours	<b>2770</b>	2570	2349	2217
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	N/A
Sample Status	<b>SEVERE</b>	SEVERE	ABNORMAL	ABNORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>41.5</b>	41.9	42.0	41.7
Acid Number (AN)	mg KOH/g	<b>0.47</b>	0.38	0.42	0.38

### CONTAMINATION

Particles >4µm	<b>35268</b>	12292	23525	10488	
Particles >6µm	<b>11707</b>	4475	7891	2845	
Particles >14µm	<b>941</b>	1011	707	167	
ISO 4406:1999 (c)	<b>22/21/17</b>	21/19/17	22/20/17	21/19/15	
Silicon	ppm	<b>4</b>	3	3	3
Sodium	ppm	<b>0</b>	2	2	2
Potassium	ppm	<b>&lt;1</b>	1	0	0

### Diagnosis

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. All component wear rates are normal. There is a high amount of particulates (2 to 100 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

### WEAR METALS

Iron	ppm	<b>6</b>	5	5	5
Copper	ppm	<b>3</b>	2	2	3
Lead	ppm	<b>1</b>	0	0	0
Tin	ppm	<b>0</b>	<1	0	0
Aluminum	ppm	<b>&lt;1</b>	<1	<1	0
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>&lt;1</b>	<1	<1	1
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	0	<1	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	0	<1
Vanadium	ppm	<b>0</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>105</b>	84	81	80
Magnesium	ppm	<b>5</b>	4	2	6
Zinc	ppm	<b>455</b>	503	444	449
Phosphorus	ppm	<b>346</b>	380	349	342
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	0	0	0

**Depot:** VOLVO0069  
**Unique No:** 10604752  
**Signed:** Wes Davis  
**Report Date:** 16 Aug 2023

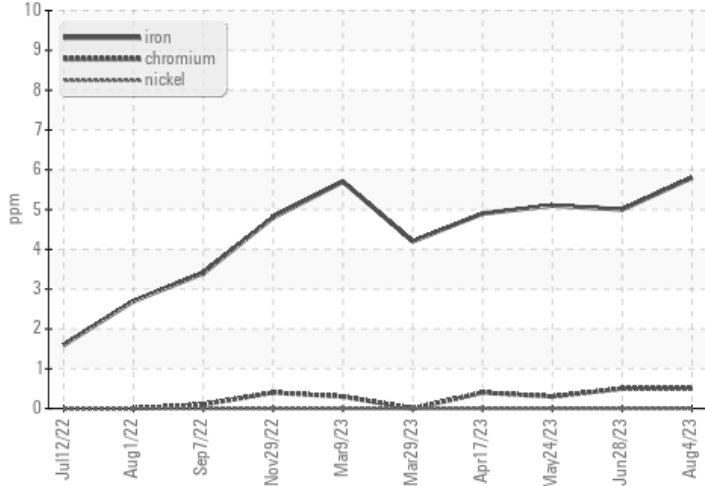


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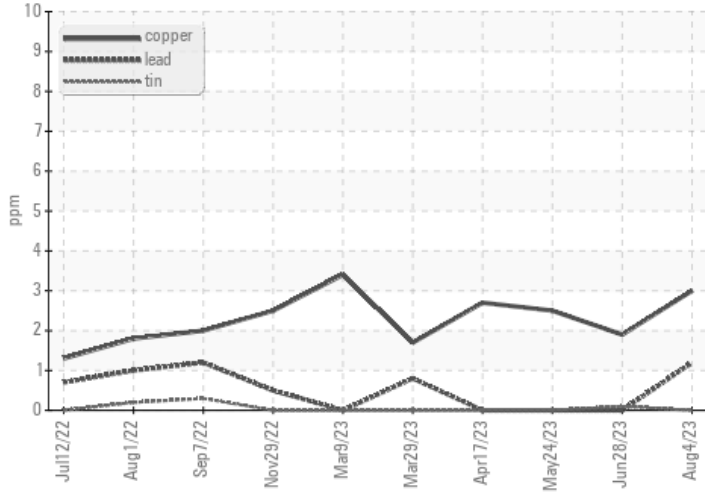


## GRAPHS

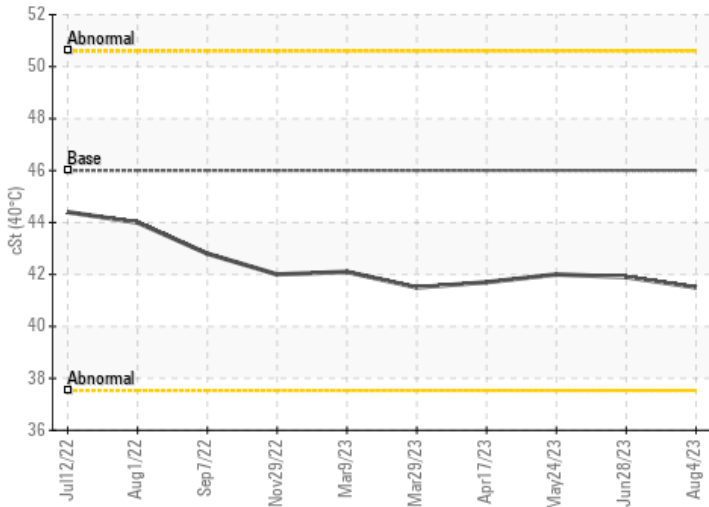
### Ferrous Alloys



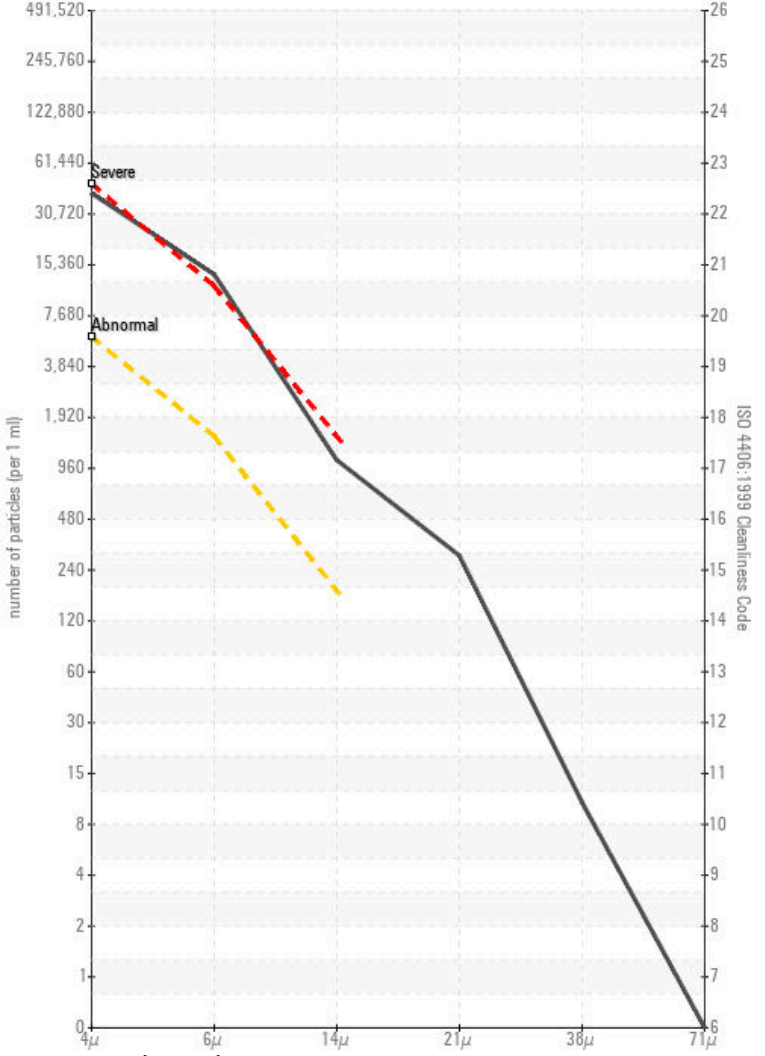
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

