



# CONSTRUCTION EQUIPMENT

## W14529 VOLVO L110H 632072 - HYDRAULIC SYSTEM



**Sample No:** VCP404664  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** W14529



### SAMPLE INFORMATION

Sample Number	<b>VCP404664</b>	VCP426784	VCP382883	VCP384235
Sample Date	<b>07 Aug 2023</b>	02 May 2023	10 Feb 2023	08 Nov 2022
Machine Hours	<b>4539</b>	4013	3531	3030
Oil Hours	<b>500</b>	2000	500	1000
Oil Changed	<b>Not Chngd</b>	Changed	Not Chngd	Not Chngd
Sample Status	<b>ABNORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>42.5</b>	41.4	41.9	41.3
Acid Number (AN)	mg KOH/g	<b>0.35</b>	0.37	0.37	0.49

### CONTAMINATION

Particles >4µm		<b>9343</b>	7742	7473	10280
Particles >6µm		<b>3166</b>	736	1730	1577
Particles >14µm		<b>268</b>	20	59	43
ISO 4406:1999 (c)		<b>20/19/15</b>	20/17/11	20/18/13	21/18/13
Silicon	ppm	<b>2</b>	3	3	3
Sodium	ppm	<b>2</b>	0	2	0
Potassium	ppm	<b>0</b>	2	<1	2

### Diagnosis

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate 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>4</b>	6	6	7
Copper	ppm	<b>&lt;1</b>	3	2	3
Lead	ppm	<b>0</b>	1	1	2
Tin	ppm	<b>0</b>	0	0	<1
Aluminum	ppm	<b>0</b>	0	0	<1
Chromium	ppm	<b>&lt;1</b>	2	2	2
Molybdenum	ppm	<b>0</b>	<1	<1	<1
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	2
Manganese	ppm	<b>0</b>	0	0	0
Vanadium	ppm	<b>0</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>130</b>	81	75	110
Magnesium	ppm	<b>4</b>	6	5	8
Zinc	ppm	<b>461</b>	465	434	467
Phosphorus	ppm	<b>368</b>	350	333	347
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>&lt;1</b>	0	0	2

**Depot:** VOLVO0080  
**Unique No:** 10604100  
**Signed:** Wes Davis  
**Report Date:** 15 Aug 2023

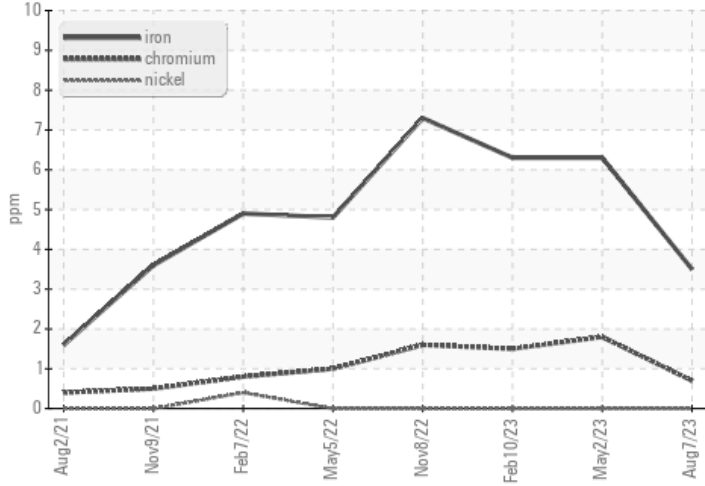


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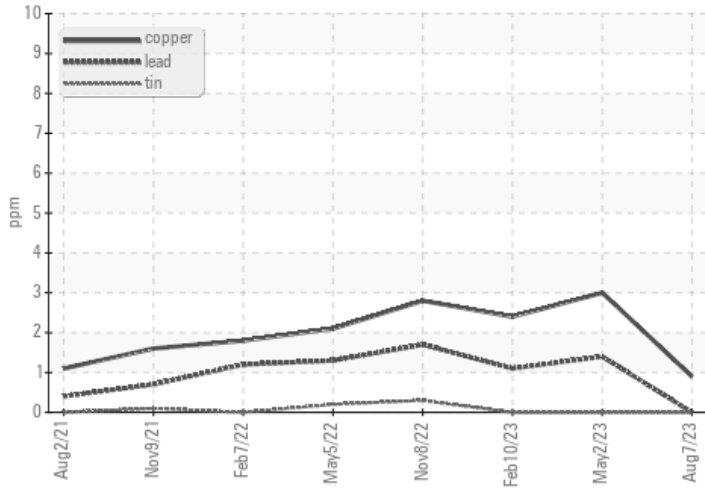


## VOLVO GRAPHS

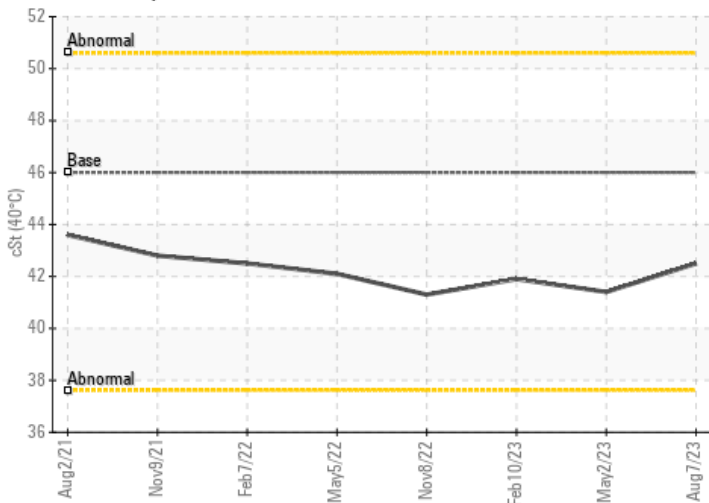
### Ferrous Alloys



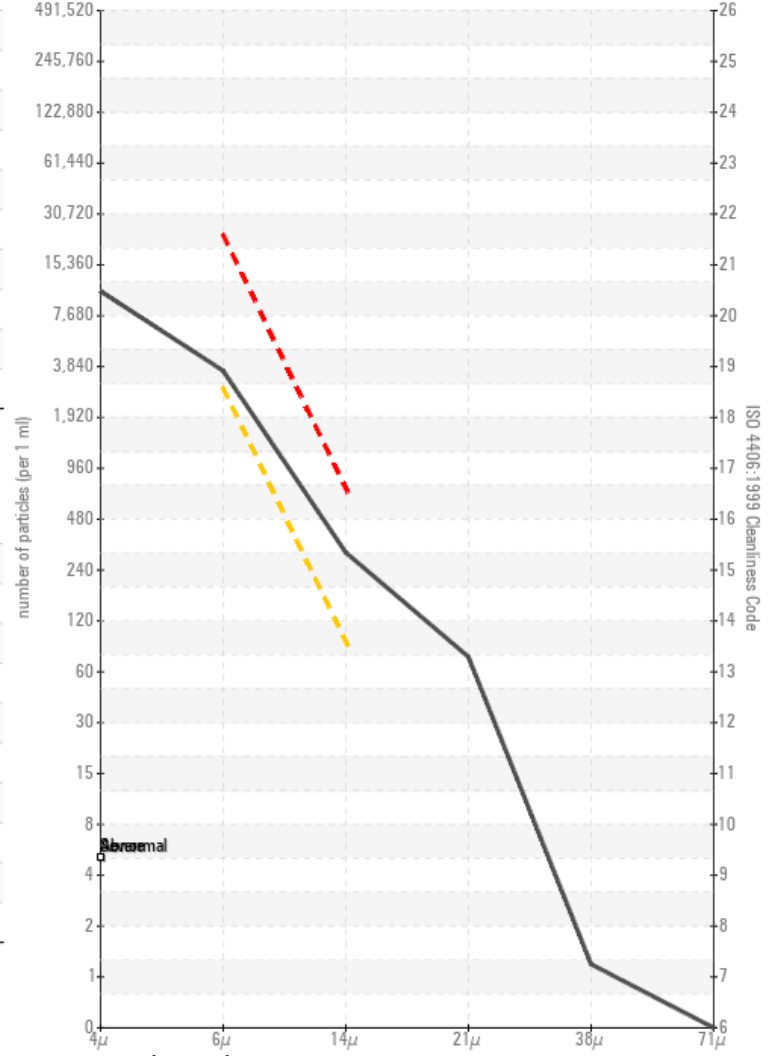
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

