



# CONSTRUCTION EQUIPMENT

## 225209 CRC WM VOLVO L120H 632093 - HYDRAULIC SYSTEM



**Sample No:** VCP424202  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** 225209 CRC WM



### SAMPLE INFORMATION

Sample Number	<b>VCP424202</b>	VCP403240	VCP363787	VCP344840
Sample Date	<b>07 Sep 2023</b>	01 Aug 2023	11 Oct 2022	18 Apr 2022
Machine Hours	<b>18922</b>	18768	16539	15363
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Changed	N/A	N/A
Sample Status	<b>ABNORMAL</b>	SEVERE	ABNORMAL	ABNORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>43.2</b>	42.3	42.7	43.8
Acid Number (AN)	mg KOH/g	<b>0.35</b>	0.43	0.45	0.767



### CONTAMINATION

Particles >4µm		<b>19181</b>	127045	4834	17596
Particles >6µm		<b>6114</b>	51021	1440	4530
Particles >14µm		<b>435</b>	1775	171	253
ISO 4406:1999 (c)		<b>21/20/16</b>	24/23/18	19/18/15	21/19/15
Silicon	ppm	<b>2</b>	5	2	3
Sodium	ppm	<b>0</b>	6	4	6
Potassium	ppm	<b>0</b>	3	0	0

### 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>1</b>	4	3	5
Copper	ppm	<b>&lt;1</b>	4	1	2
Lead	ppm	<b>&lt;1</b>	2	0	<1
Tin	ppm	<b>0</b>	<1	0	<1
Aluminum	ppm	<b>&lt;1</b>	<1	1	<1
Chromium	ppm	<b>&lt;1</b>	<1	<1	2
Molybdenum	ppm	<b>0</b>	2	<1	<1
Nickel	ppm	<b>0</b>	<1	0	<1
Titanium	ppm	<b>0</b>	<1	0	0
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>&lt;1</b>	2	<1	0
Vanadium	ppm	<b>0</b>	0	<1	0



### ADDITIVES

Calcium	ppm	<b>67</b>	88	89	159
Magnesium	ppm	<b>3</b>	2	0	13
Zinc	ppm	<b>472</b>	402	470	476
Phosphorus	ppm	<b>365</b>	326	383	410
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	0	0	2

**Depot:** VOLVO1271  
**Unique No:** 10648642  
**Signed:** Wes Davis  
**Report Date:** 18 Sep 2023

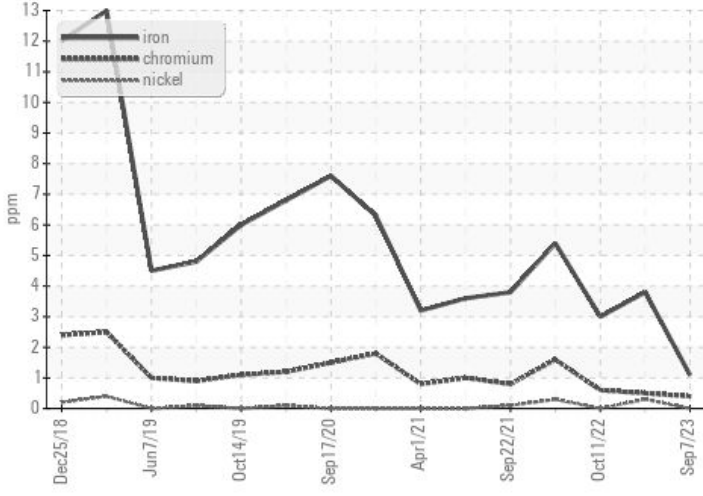


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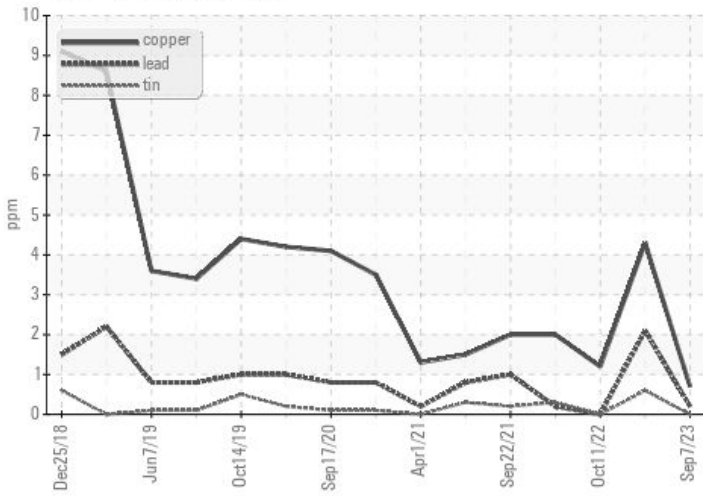


## GRAPHS

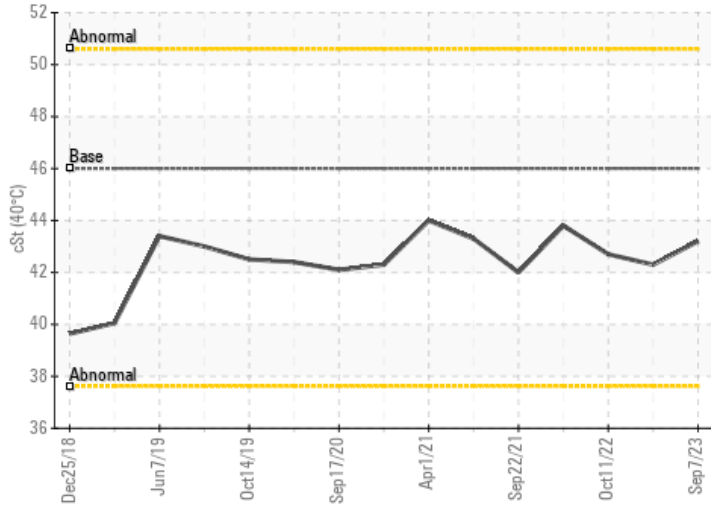
Ferrous Alloys



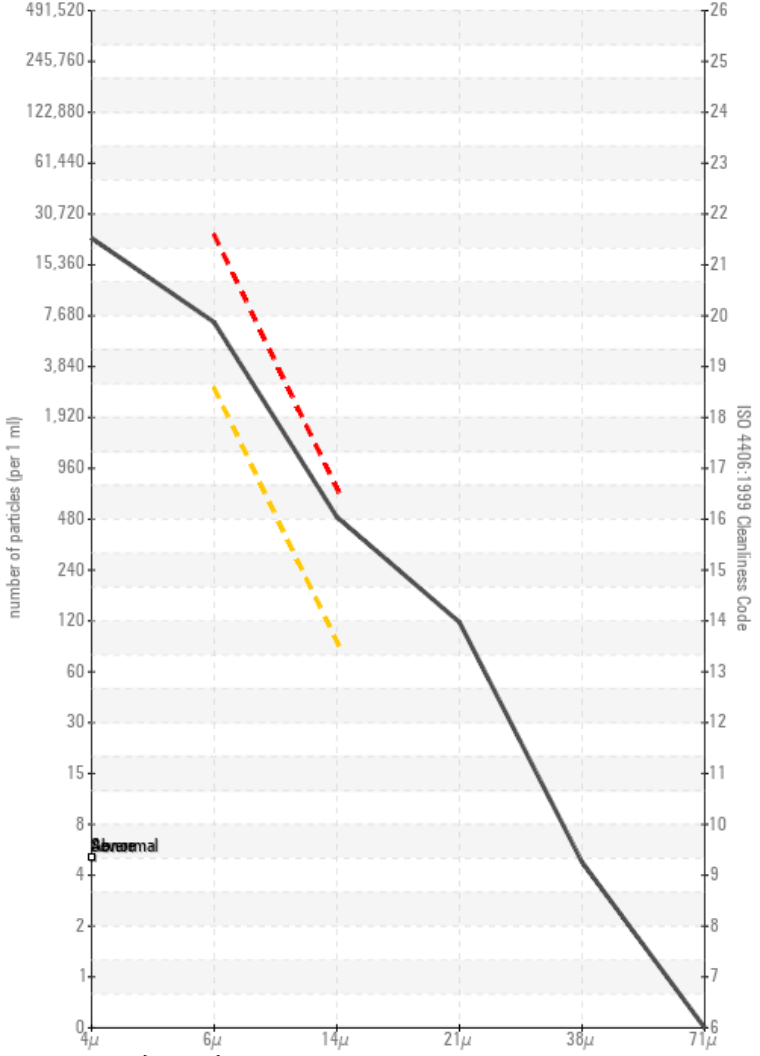
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

