



# CONSTRUCTION EQUIPMENT

## 700575 VOLVO L110H 631298 - HYDRAULIC SYSTEM



**Sample No:** VCP438834  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** 700575



### SAMPLE INFORMATION

Sample Number	<b>VCP438834</b>	VCP444101	VCP393729	VCP398712
Sample Date	<b>04 Apr 2024</b>	21 Feb 2024	18 Jul 2023	16 Dec 2022
Machine Hours	<b>8536</b>	9530	8405	7287
Oil Hours	<b>4000</b>	0	4000	3000
Oil Changed	<b>Changed</b>	N/A	Changed	Not Changd
Sample Status	<b>ATTENTION</b>	ABNORMAL	NORMAL	ABNORMAL

**RIPA AND ASSOCIATES**  
 10149 FISHER AVENUE  
 TAMPA, FL  
 US 33619  
 Contact: PM Services  
 PMServices@ripaconstruction.com  
 T:  
 F:

### OIL CONDITION

Visc @ 40°C	cSt	<b>51.2</b>	43.7	44.0	43.0
Acid Number (AN)	mg KOH/g	<b>0.30</b>	0.38	0.34	0.38

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>24766</b>	18890	12333	48952
Particles >6µm		<b>4252</b>	4943	869	8788
Particles >14µm		<b>140</b>	475	43	631
ISO 4406:1999 (c)		<b>22/19/14</b>	21/19/16	21/17/13	23/20/16
Silicon	ppm	<b>5</b>	3	4	6
Sodium	ppm	<b>1</b>	1	3	2
Potassium	ppm	<b>1</b>	0	0	0

**Diagnosis**  
 Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

### WEAR METALS

Iron	ppm	<b>8</b>	14	19	16
Copper	ppm	<b>4</b>	4	6	6
Lead	ppm	<b>2</b>	<1	2	2
Tin	ppm	<b>&lt;1</b>	<1	0	0
Aluminum	ppm	<b>2</b>	<1	3	2
Chromium	ppm	<b>2</b>	3	5	4
Molybdenum	ppm	<b>2</b>	<1	2	2
Nickel	ppm	<b>&lt;1</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>&lt;1</b>	0	0	0
Manganese	ppm	<b>0</b>	0	<1	<1
Vanadium	ppm	<b>&lt;1</b>	<1	<1	0

### ADDITIVES

Calcium	ppm	<b>64</b>	92	83	89
Magnesium	ppm	<b>6</b>	2	4	4
Zinc	ppm	<b>484</b>	444	427	461
Phosphorus	ppm	<b>384</b>	338	345	354
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	1	0	0

**Depot:** RIPTAM  
**Unique No:** 11031421  
**Signed:** Don Baldrige  
**Report Date:** 17 May 2024

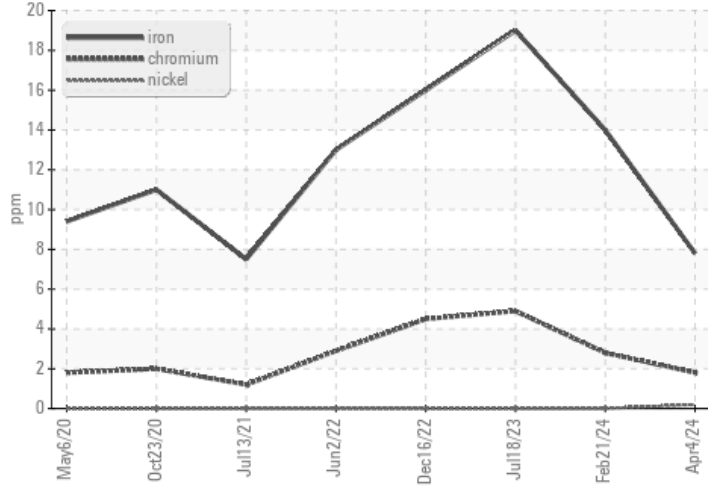


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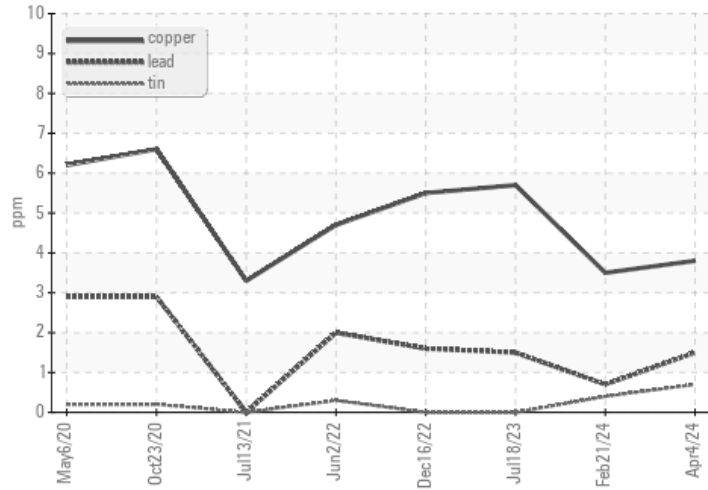


## GRAPHS

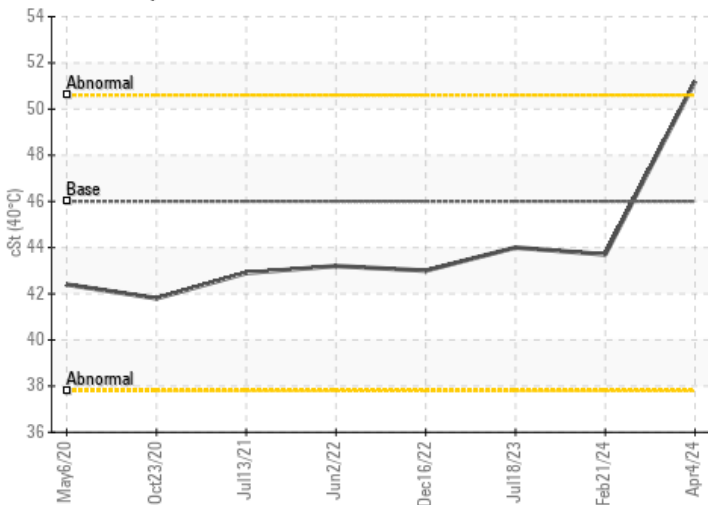
### Ferrous Alloys



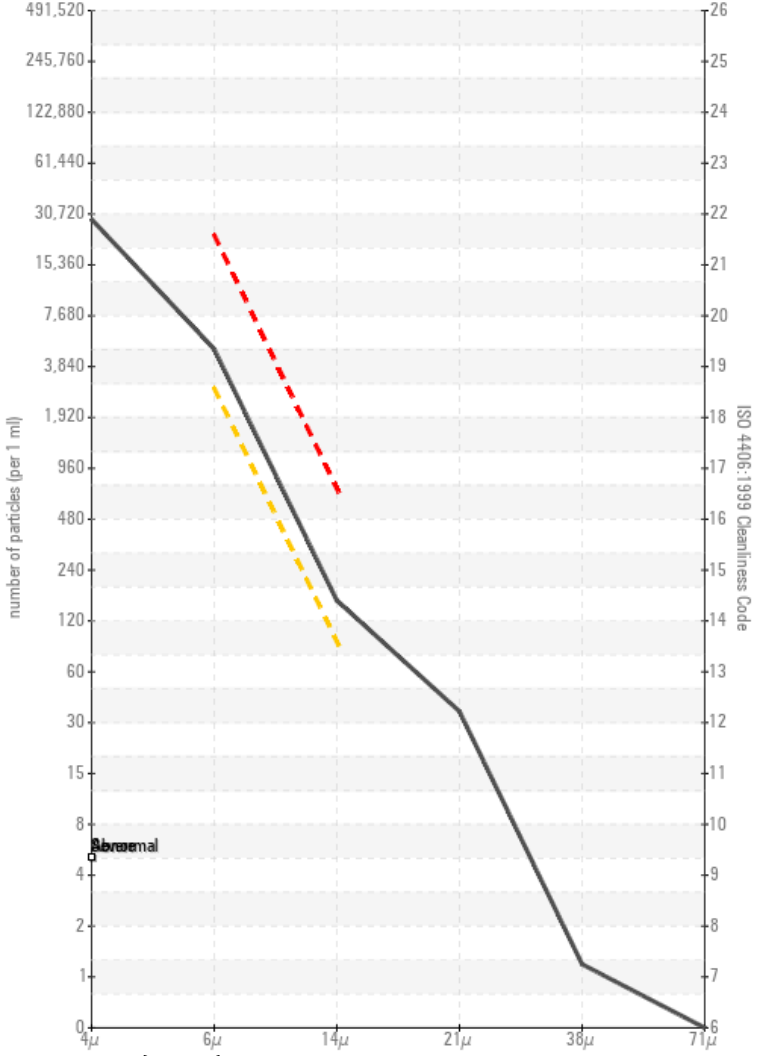
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

