



# CONSTRUCTION EQUIPMENT

## 660009 GFL VOLVO L120H 632695 - HYDRAULIC SYSTEM



**Sample No:** VCP440445  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** 660009 GFL



### SAMPLE INFORMATION

Sample Number	<b>VCP440445</b>	VCP380844	VCP303707	---
Sample Date	<b>18 Jan 2024</b>	05 Jan 2023	20 Sep 2021	---
Machine Hours	<b>8515</b>	6203	3164	---
Oil Hours	<b>4515</b>	2203	3164	---
Oil Changed	<b>Changed</b>	Not Changd	Not Changd	---
Sample Status	<b>SEVERE</b>	ABNORMAL	ABNORMAL	---

**ALTA EQUIPMENT COMPANY - METRO WEST**  
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### OIL CONDITION

Visc @ 40°C	cSt	<b>42.4</b>	42.5	44.2	---
Acid Number (AN)	mg KOH/g	<b>0.27</b>	0.35	0.311	---

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Particles >4µm		<b>43313</b>	13153	10982	---
Particles >6µm		<b>13794</b>	4457	2579	---
Particles >14µm		<b>1641</b>	425	155	---
ISO 4406:1999 (c)		<b>23/21/18</b>	21/19/16	21/19/14	---
Silicon	ppm	<b>3</b>	3	2	---
Sodium	ppm	<b>3</b>	0	<1	---
Potassium	ppm	<b>2</b>	1	0	---

### Diagnosis

We advise that you check all areas where contaminants can enter the system. The oil change at the time of sampling has been noted. 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>8</b>	8	3	---
Copper	ppm	<b>2</b>	1	<1	---
Lead	ppm	<b>2</b>	<1	0	---
Tin	ppm	<b>&lt;1</b>	0	0	---
Aluminum	ppm	<b>1</b>	0	0	---
Chromium	ppm	<b>1</b>	<1	<1	---
Molybdenum	ppm	<b>4</b>	4	2	---
Nickel	ppm	<b>&lt;1</b>	0	0	---
Titanium	ppm	<b>0</b>	0	0	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	0	0	---
Vanadium	ppm	<b>0</b>	0	0	---

### ADDITIVES

Calcium	ppm	<b>129</b>	129	104	---
Magnesium	ppm	<b>18</b>	15	10	---
Zinc	ppm	<b>459</b>	450	417	---
Phosphorus	ppm	<b>362</b>	340	320	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>&lt;1</b>	3	0	---

**Depot:** VOLVO2990  
**Unique No:** 10863386  
**Signed:** Wes Davis  
**Report Date:** 07 Feb 2024

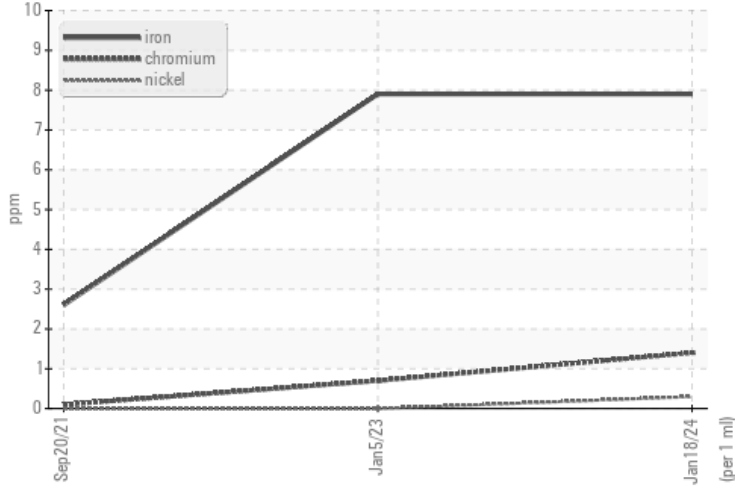


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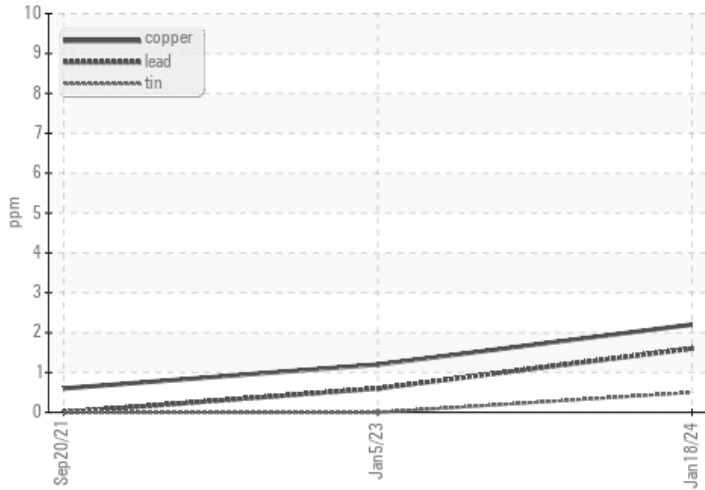


## GRAPHS

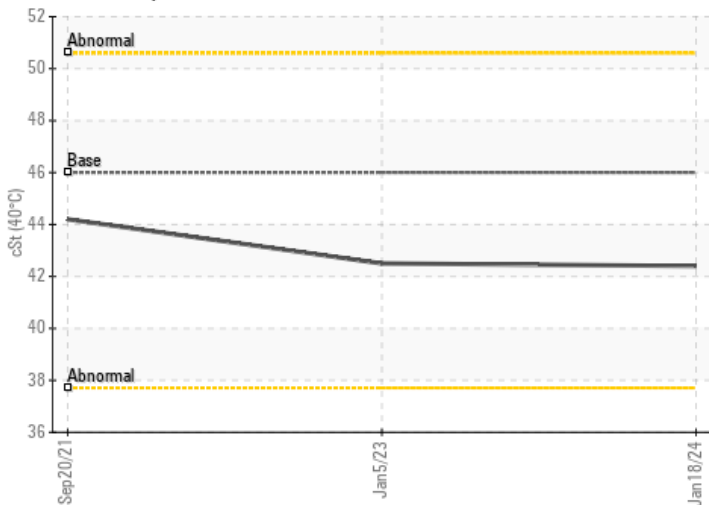
### Ferrous Alloys



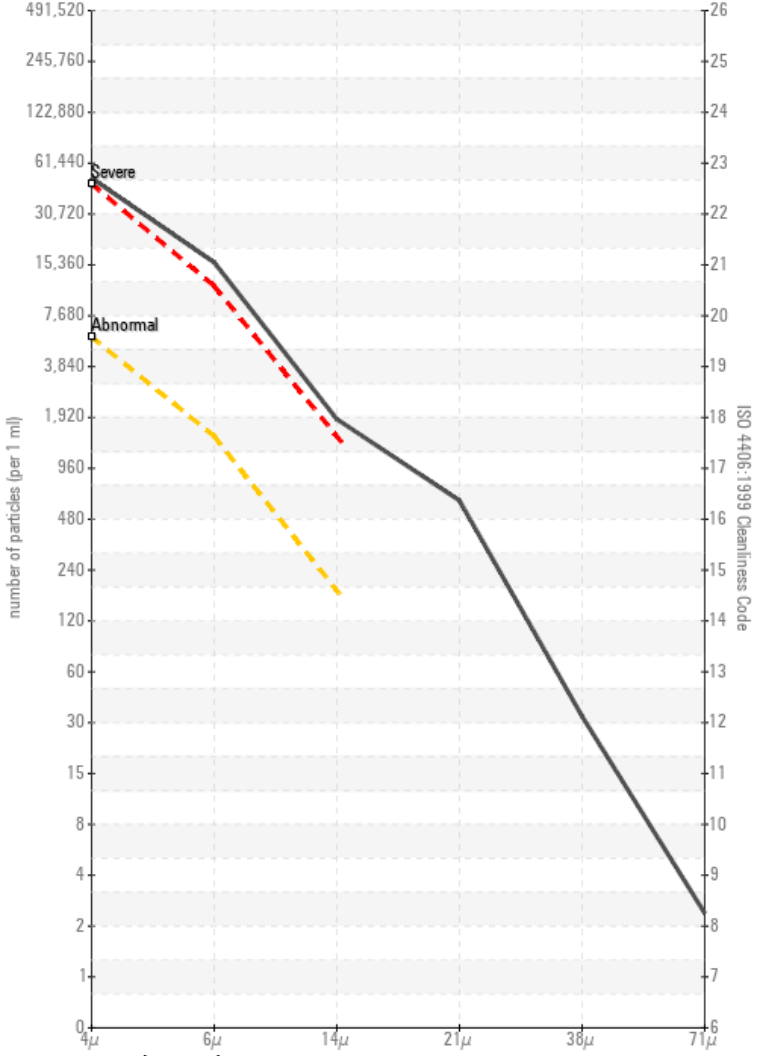
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

