



# CONSTRUCTION EQUIPMENT

## VOLVO L110H 631233 - HYDRAULIC SYSTEM



**Sample No:** VCP441895  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:**



### SAMPLE INFORMATION

Sample Number	VCP441895	---	---	---
Sample Date	18 Jan 2024	---	---	---
Machine Hours	8612	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	SEVERE	---	---	---

### RIPA AND ASSOCIATES

10149 FISHER AVENUE  
TAMPA, FL  
US 33619  
Contact: ROBERT TURNER  
rtturner@ripatampa.com  
T:  
F:



### OIL CONDITION

Visc @ 40°C	cSt	█ 44.7	---	---	---
Acid Number (AN)	mg KOH/g	█ 0.26	---	---	---



### CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		█ 24376	---	---	---
Particles >6µm		▲ 6833	---	---	---
Particles >14µm		▲ 633	---	---	---
ISO 4406:1999 (c)		22/20/16	---	---	---
Silicon	ppm	█ 5	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 3	---	---	---

### 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	█ 12	---	---	---
Copper	ppm	█ 4	---	---	---
Lead	ppm	█ 3	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ 2	---	---	---
Molybdenum	ppm	█ 4	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	0	---	---	---



### ADDITIVES

Calcium	ppm	█ 96	---	---	---
Magnesium	ppm	█ 16	---	---	---
Zinc	ppm	█ 412	---	---	---
Phosphorus	ppm	█ 343	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 0	---	---	---

**Depot:** RIPTAM  
**Unique No:** 10863376  
**Signed:** Wes Davis  
**Report Date:** 07 Feb 2024

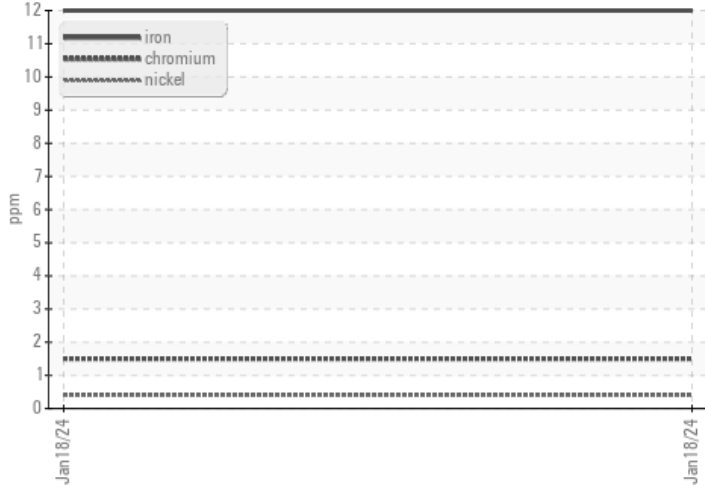


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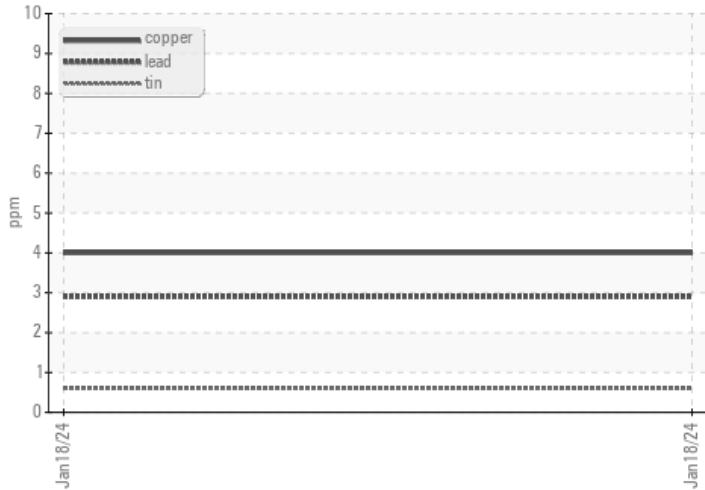


## VOLVO GRAPHS

### Ferrous Alloys



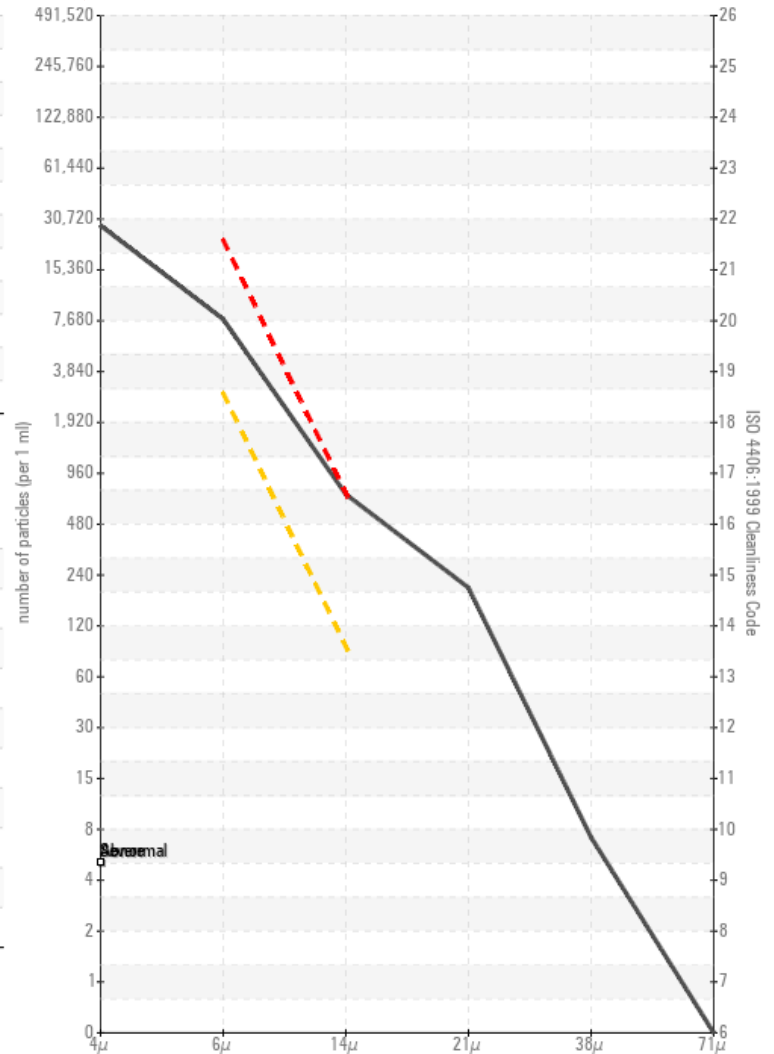
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

