



# CONSTRUCTION EQUIPMENT

## VOLVO L110H 632292 - HYDRAULIC SYSTEM



**Sample No:** VCP440129  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:**



### SAMPLE INFORMATION

Sample Number	VCP440129	---	---	---
Sample Date	24 Mar 2024	---	---	---
Machine Hours	9103	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changed	---	---	---
Sample Status	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	█ 42.8	---	---	---
Acid Number (AN)	mg KOH/g	█ 0.42	---	---	---



### CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		▲ 49144	---	---	---
Particles >6µm		▲ 21603	---	---	---
Particles >14µm		▲ 3354	---	---	---
ISO 4406:1999 (c)		23/22/19	---	---	---
Silicon	ppm	█ 3	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 1	---	---	---

### Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high 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	█ 3	---	---	---
Copper	ppm	█ 1	---	---	---
Lead	ppm	█ 2	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ <1	---	---	---
Chromium	ppm	█ 1	---	---	---
Molybdenum	ppm	█ 21	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---



### ADDITIVES

Calcium	ppm	█ 115	---	---	---
Magnesium	ppm	█ 17	---	---	---
Zinc	ppm	█ 447	---	---	---
Phosphorus	ppm	█ 363	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 4	---	---	---

**Depot:** RIPTAM  
**Unique No:** 11056049  
**Signed:** Angela Borella  
**Report Date:** 31 May 2024

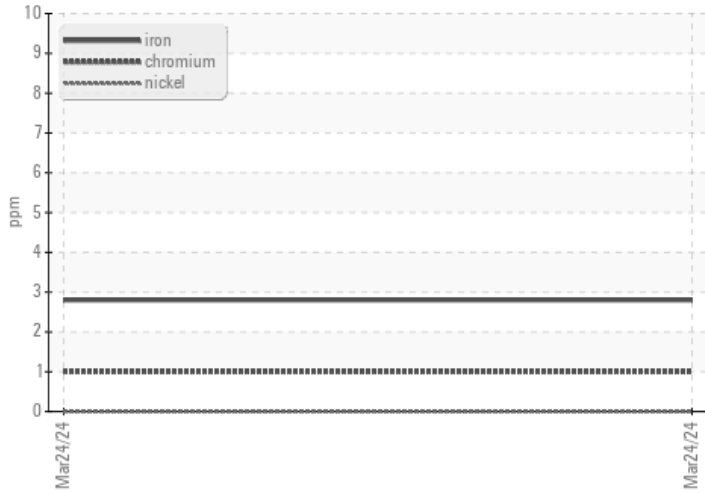


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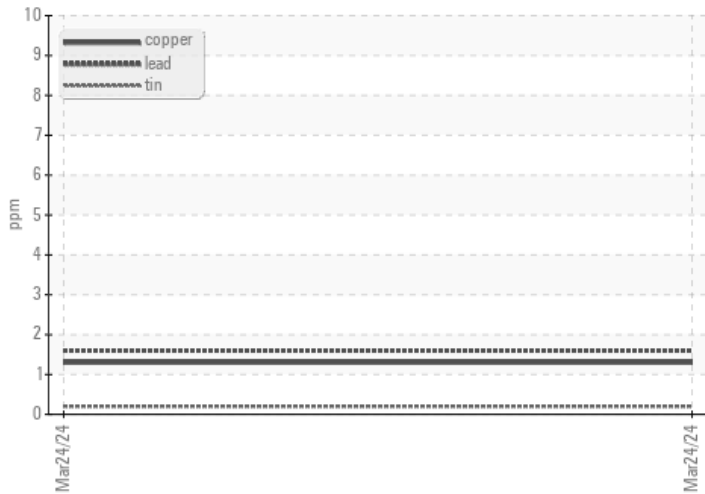


## GRAPHS

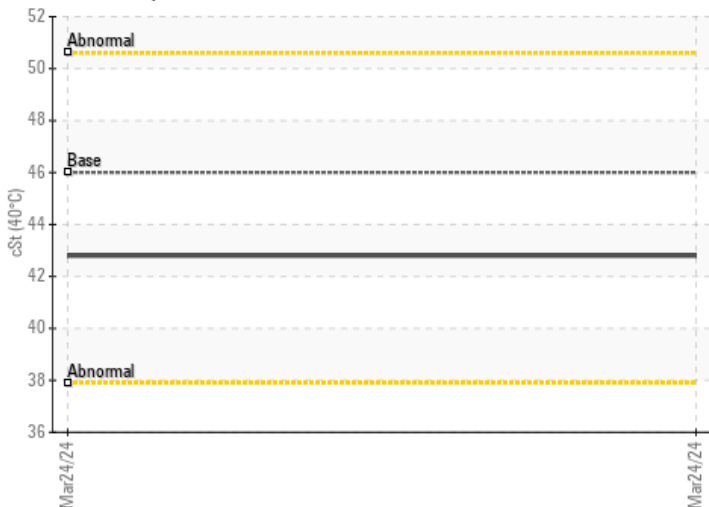
### Ferrous Alloys



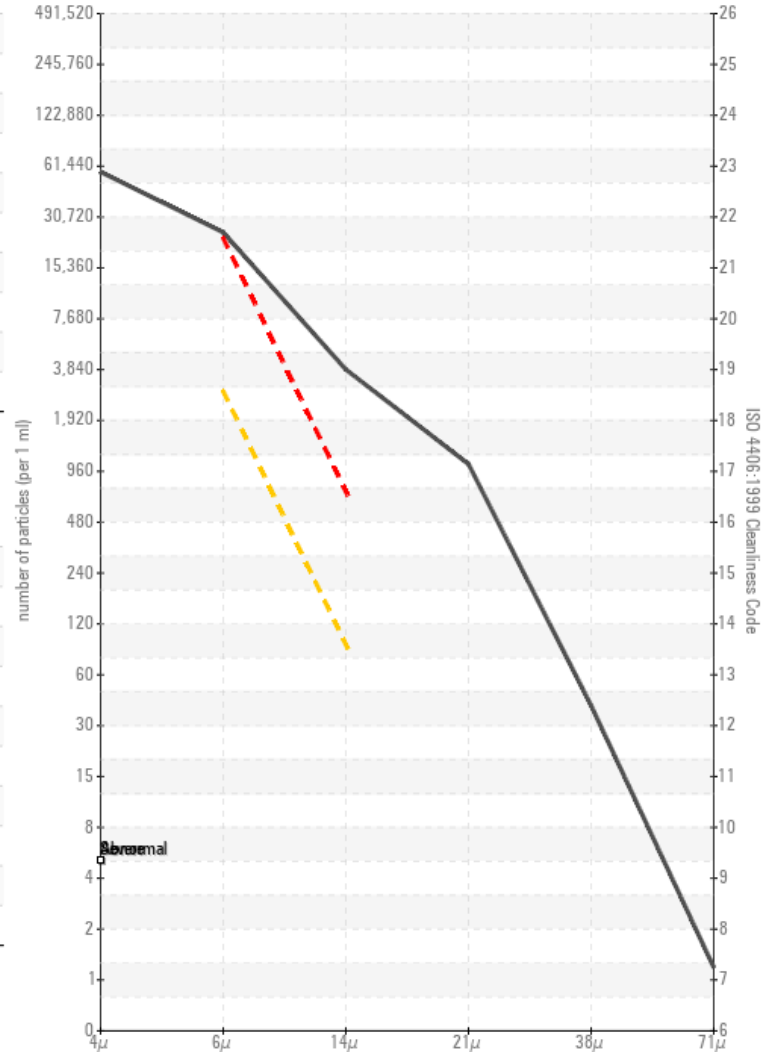
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

