



# CONSTRUCTION EQUIPMENT

## VOLVO L110H 631301 - HYDRAULIC SYSTEM



**Sample No:** VCP274971  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:**



### SAMPLE INFORMATION

Sample Number	VCP274971	---	---	---
Sample Date	03 May 2020	---	---	---
Machine Hours	11442	---	---	---
Oil Hours	2000	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	ATTENTION	---	---	---

**COVANTA**  
 350 FLAKENBURG ROAD  
 TAMPA, FL  
 US 33619  
 Contact: SERVICE MANAGER

### OIL CONDITION

Visc @ 40°C	cSt	▲ 60.4	---	---	---
Acid Number (AN)	mg KOH/g	■ 0.265	---	---	---

T: (813)684-5688  
 F:

### CONTAMINATION

Particles >4µm		▲ 13067	---	---	---
Particles >6µm		■ 1237	---	---	---
Particles >14µm		▲ 97	---	---	---
ISO 4406:1999 (c)		21/17/14	---	---	---
Silicon	ppm	■ 17	---	---	---
Sodium	ppm	■ 0	---	---	---
Potassium	ppm	■ 0	---	---	---

**Diagnosis**  
 No corrective action is recommended at this time. The filter change at the time of sampling has been noted. 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 oil viscosity is higher than normal. Confirm oil type. The AN level is acceptable for this fluid.

### WEAR METALS

Iron	ppm	■ 4	---	---	---
Copper	ppm	■ 1	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ <1	---	---	---
Chromium	ppm	■ 3	---	---	---
Molybdenum	ppm	■ <1	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	■ 63	---	---	---
Magnesium	ppm	■ 2	---	---	---
Zinc	ppm	■ 364	---	---	---
Phosphorus	ppm	■ 303	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 3	---	---	---

**Depot:** COVTAM  
**Unique No:** 9024158  
**Signed:** Doug Bogart  
**Report Date:** 13 May 2020

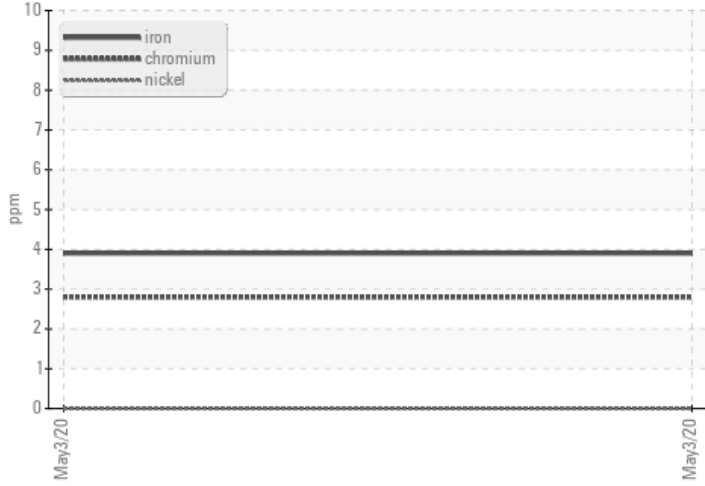


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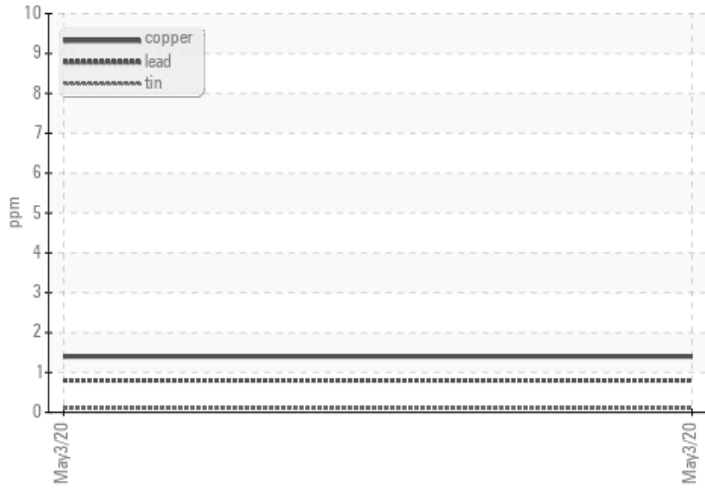


## GRAPHS

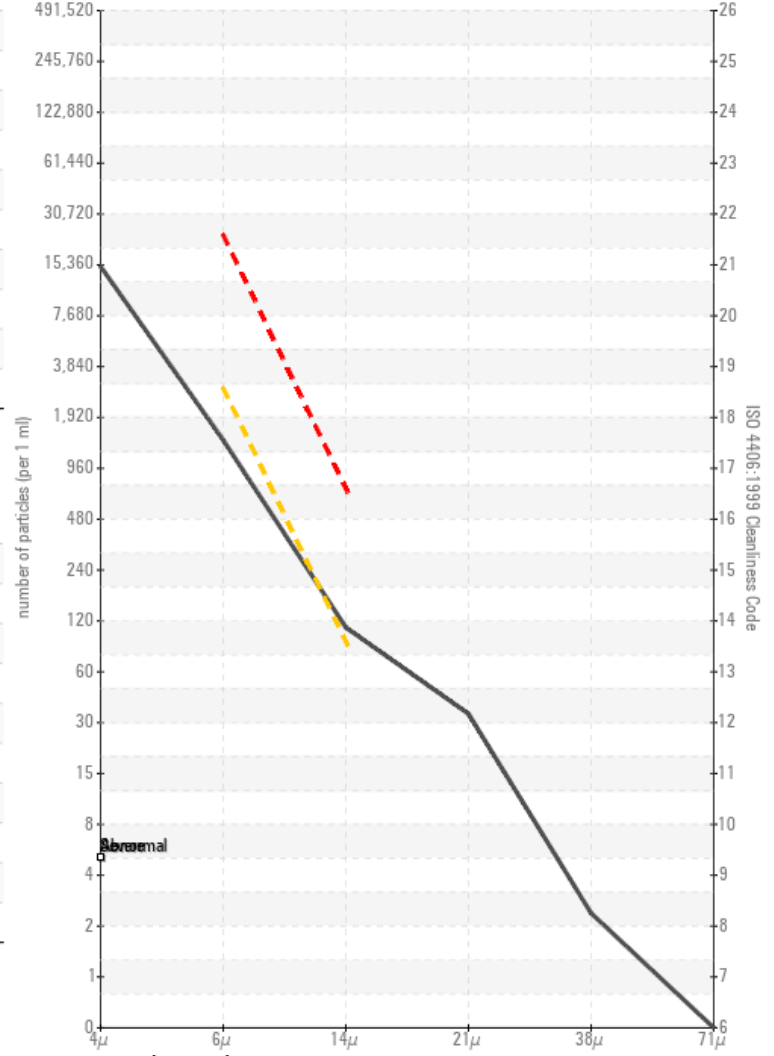
### Ferrous Alloys



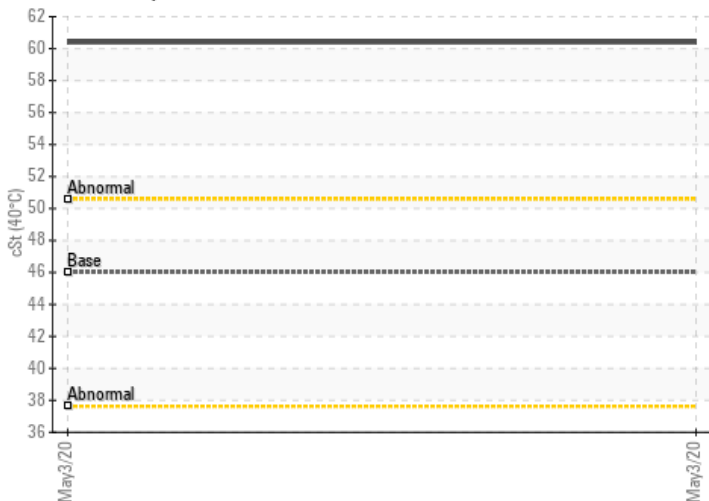
### Non-ferrous Metals



### Particle Count



### Viscosity @ 40°C



### Acid Number

