



# CONSTRUCTION EQUIPMENT

## VOLVO L70H 623349 - HYDRAULIC SYSTEM



**Sample No:** VCP438787  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP438787</b>	VCP318830	---	---
Sample Date	<b>16 Mar 2024</b>	04 Aug 2021	---	---
Machine Hours	<b>4835</b>	1583	---	---
Oil Hours	<b>0</b>	0	---	---
Oil Changed	<b>Changed</b>	Not Changd	---	---
Sample Status	<b>SEVERE</b>	NORMAL	---	---

**ALTA EQUIPMENT COMPANY**  
 5151 DR MARTIN LUTHER KING BLVD  
 FORT MYERS, FL  
 US 33905  
 Contact: TODD LARK  
 tlark@altaequipfl.com  
 T:  
 F: (239)481-3302



### OIL CONDITION

Visc @ 40°C	cSt	<b>50.6</b>	51.0	---	---
Acid Number (AN)	mg KOH/g	<b>0.30</b>	0.326	---	---



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	---	---
Particles >4µm		<b>▲ 43986</b>	1512	---	---
Particles >6µm		<b>▲ 16318</b>	209	---	---
Particles >14µm		<b>▲ 1688</b>	17	---	---
ISO 4406:1999 (c)		<b>23/21/18</b>	18/15/11	---	---
Silicon	ppm	<b>1</b>	<1	---	---
Sodium	ppm	<b>0</b>	<1	---	---
Potassium	ppm	<b>0</b>	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>2</b>	2	---	---
Copper	ppm	<b>2</b>	2	---	---
Lead	ppm	<b>2</b>	2	---	---
Tin	ppm	<b>&lt;1</b>	<1	---	---
Aluminum	ppm	<b>&lt;1</b>	0	---	---
Chromium	ppm	<b>&lt;1</b>	<1	---	---
Molybdenum	ppm	<b>0</b>	<1	---	---
Nickel	ppm	<b>0</b>	0	---	---
Titanium	ppm	<b>0</b>	0	---	---
Silver	ppm	<b>0</b>	0	---	---
Manganese	ppm	<b>0</b>	0	---	---
Vanadium	ppm	<b>0</b>	0	---	---



### ADDITIVES

Calcium	ppm	<b>31</b>	48	---	---
Magnesium	ppm	<b>0</b>	2	---	---
Zinc	ppm	<b>347</b>	404	---	---
Phosphorus	ppm	<b>278</b>	313	---	---
Barium	ppm	<b>0</b>	0	---	---
Boron	ppm	<b>0</b>	2	---	---

**Depot:** VOLVO0090  
**Unique No:** 10936434  
**Signed:** Wes Davis  
**Report Date:** 20 Mar 2024

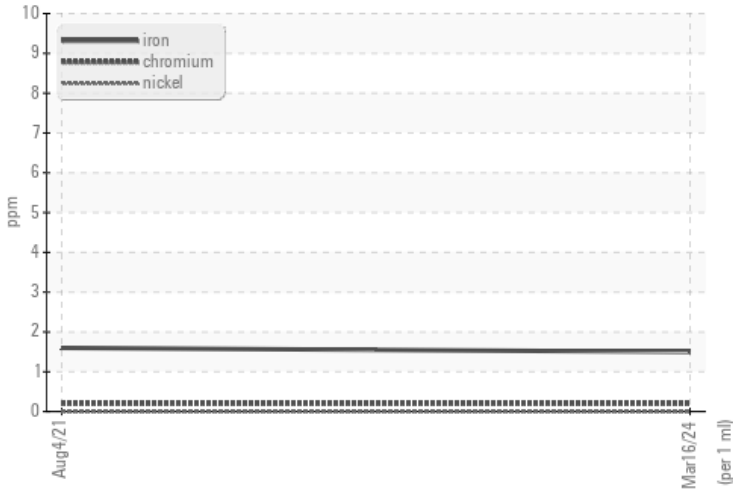


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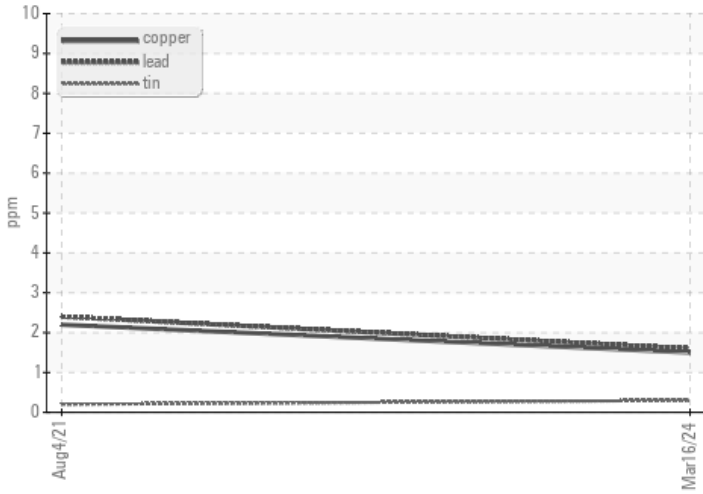


## GRAPHS

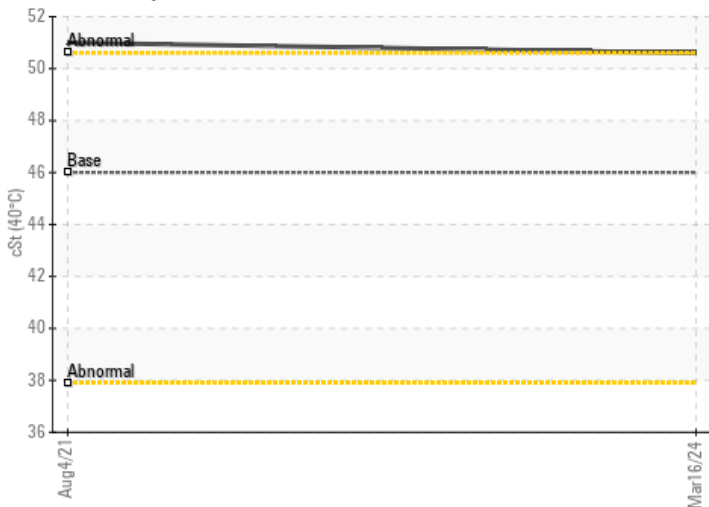
### Ferrous Alloys



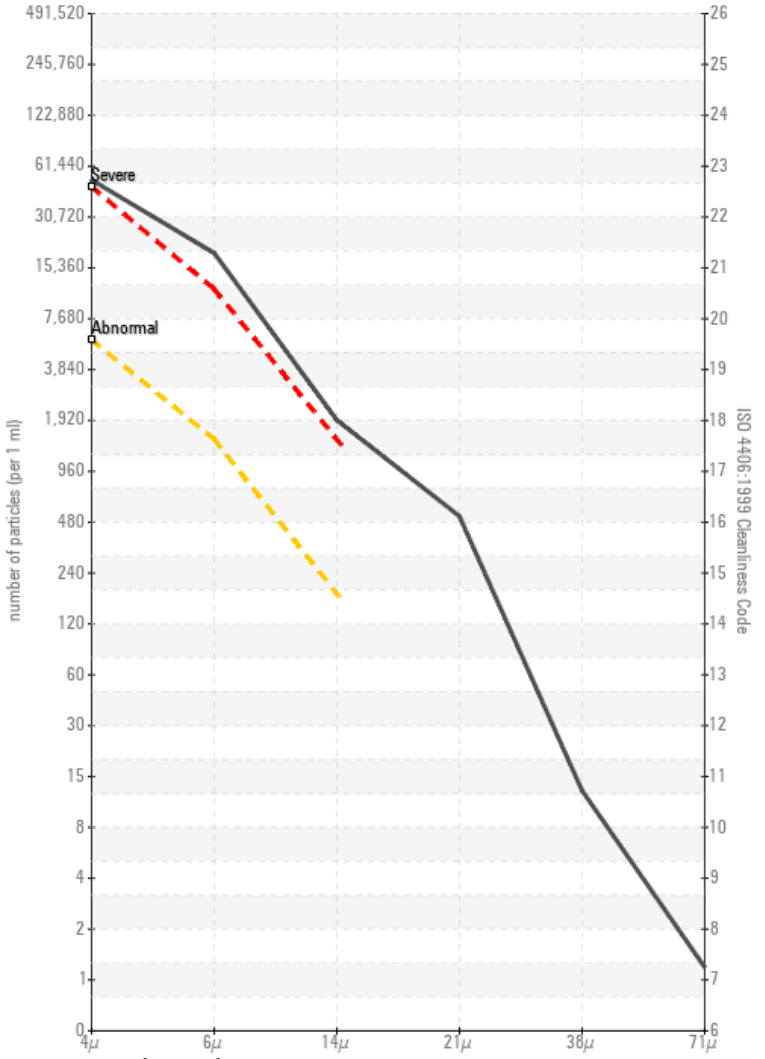
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

