



# CONSTRUCTION EQUIPMENT

## VOLVO L90H 625060 - HYDRAULIC SYSTEM



**Sample No:** VCP411992  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:**



### SAMPLE INFORMATION

Sample Number	VCP411992	VCP301598	---	---
Sample Date	25 Aug 2023	11 Feb 2021	---	---
Machine Hours	2836	914	---	---
Oil Hours	0	914	---	---
Oil Changed	Not Chngd	Not Chngd	---	---
Sample Status	ABNORMAL	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	42.2	43.7	---	---
Acid Number (AN)	mg KOH/g	0.31	0.320	---	---

### CONTAMINATION

Particles >4µm		14881	11162	---	---
Particles >6µm		3579	1247	---	---
Particles >14µm		195	62	---	---
ISO 4406:1999 (c)		21/19/15	21/17/13	---	---
Silicon	ppm	4	3	---	---
Sodium	ppm	3	0	---	---
Potassium	ppm	0	<1	---	---

**Diagnosis**  
 We recommend you service the filters on this component. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 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	9	4	---	---
Copper	ppm	2	2	---	---
Lead	ppm	1	2	---	---
Tin	ppm	0	<1	---	---
Aluminum	ppm	0	0	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	0	<1	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	0	---	---

### ADDITIVES

Calcium	ppm	160	162	---	---
Magnesium	ppm	4	3	---	---
Zinc	ppm	449	458	---	---
Phosphorus	ppm	244	367	---	---
Barium	ppm	0	0	---	---
Boron	ppm	<1	3	---	---

**Depot:** RIPTAM  
**Unique No:** 10655153  
**Signed:** Wes Davis  
**Report Date:** 20 Sep 2023

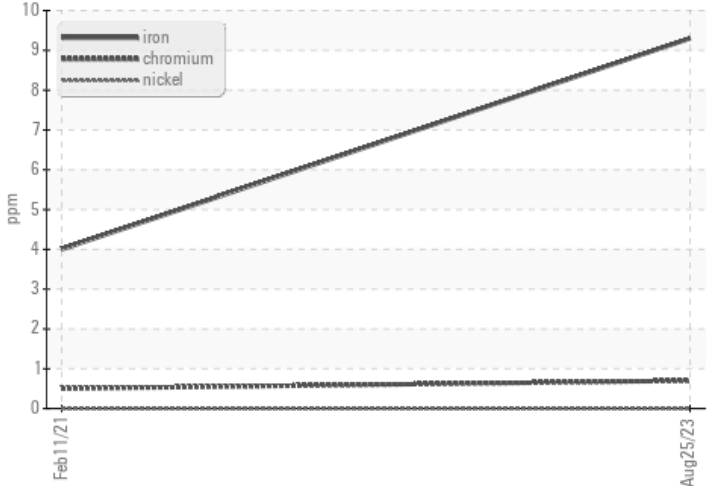


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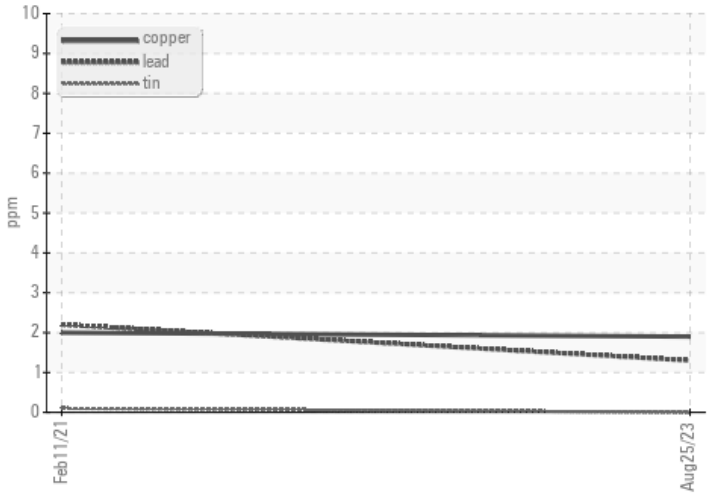


## GRAPHS

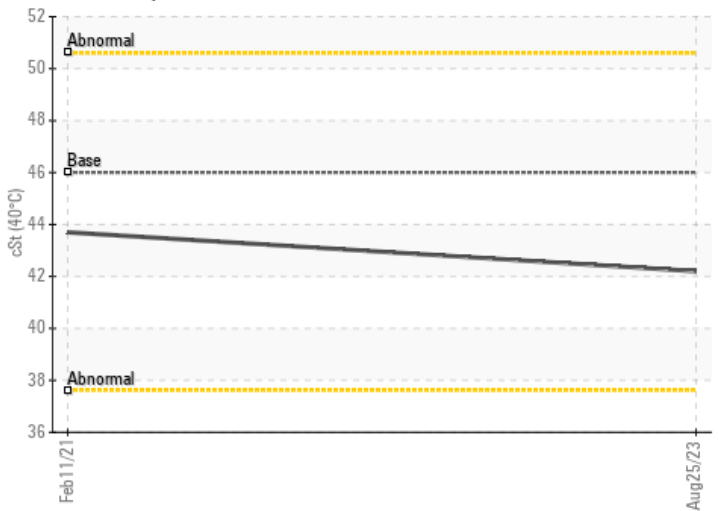
### Ferrous Alloys



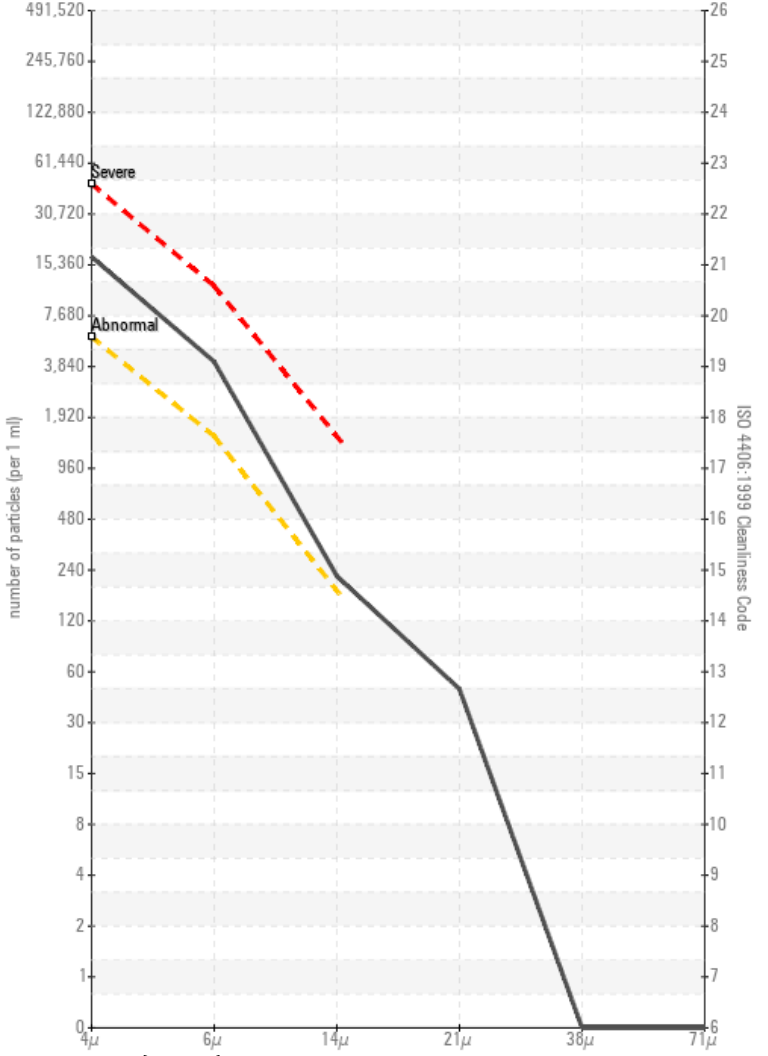
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

