



# CONSTRUCTION EQUIPMENT

## VOLVO L90H 5624326 - HYDRAULIC SYSTEM



**Sample No:** VCP454627  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP454627</b>	VCP437212	VCP416437	---
Sample Date	<b>09 Jul 2024</b>	21 Mar 2024	08 Sep 2023	---
Machine Hours	<b>9186</b>	0	7531	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Changed</b>	Changed	Not Changd	---
Sample Status	<b>ABNORMAL</b>	NORMAL	NORMAL	---

**CITY CARTING**  
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 US 06460  
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 T: (203)223-3885  
 F:

### OIL CONDITION

Visc @ 40°C	cSt	<b>42.1</b>	41.1	41.8	---
Acid Number (AN)	mg KOH/g	<b>0.37</b>	0.77	0.551	---

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Particles >4µm		<b>8810</b>	8677	1631	---
Particles >6µm		<b>3023</b>	2023	388	---
Particles >14µm		<b>179</b>	34	37	---
ISO 4406:1999 (c)		<b>20/19/15</b>	20/18/12	18/16/12	---
Silicon	ppm	<b>2</b>	5	5	---
Sodium	ppm	<b>4</b>	4	3	---
Potassium	ppm	<b>0</b>	2	0	---

### Diagnosis

The filter change at the time of sampling has been noted. 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	<b>&lt;1</b>	1	2	---
Copper	ppm	<b>1</b>	2	0	---
Lead	ppm	<b>0</b>	1	0	---
Tin	ppm	<b>0</b>	<1	0	---
Aluminum	ppm	<b>0</b>	3	0	---
Chromium	ppm	<b>&lt;1</b>	1	<1	---
Molybdenum	ppm	<b>9</b>	27	30	---
Nickel	ppm	<b>0</b>	0	0	---
Titanium	ppm	<b>0</b>	<1	0	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>0</b>	0	0	---
Vanadium	ppm	<b>0</b>	<1	0	---

### ADDITIVES

Calcium	ppm	<b>474</b>	1149	946	---
Magnesium	ppm	<b>17</b>	58	70	---
Zinc	ppm	<b>471</b>	707	663	---
Phosphorus	ppm	<b>403</b>	603	460	---
Barium	ppm	<b>0</b>	<1	0	---
Boron	ppm	<b>2</b>	17	19	---

**Depot:** CITMILCON  
**Unique No:** 11123627  
**Signed:** Wes Davis  
**Report Date:** 15 Jul 2024

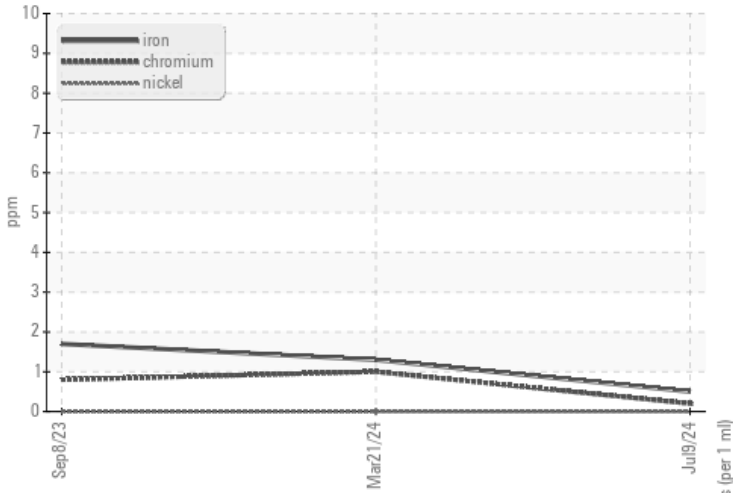


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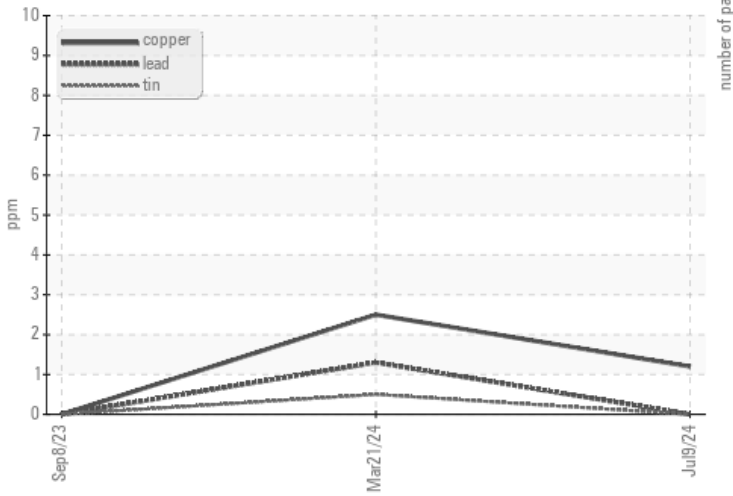


## GRAPHS

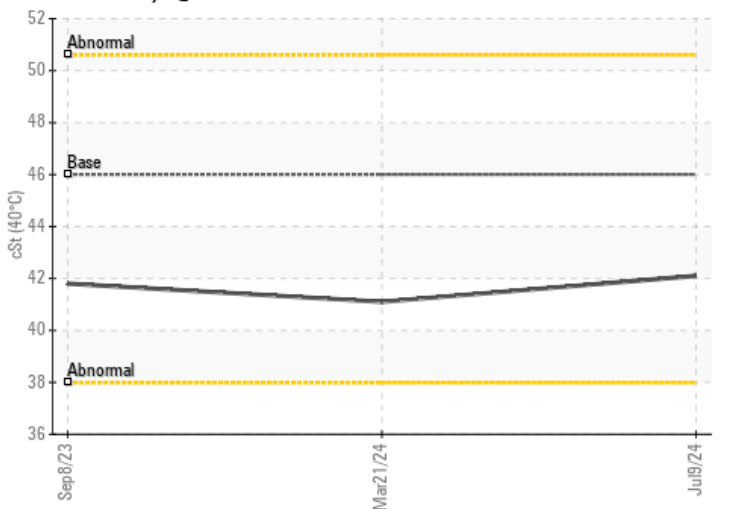
### Ferrous Alloys



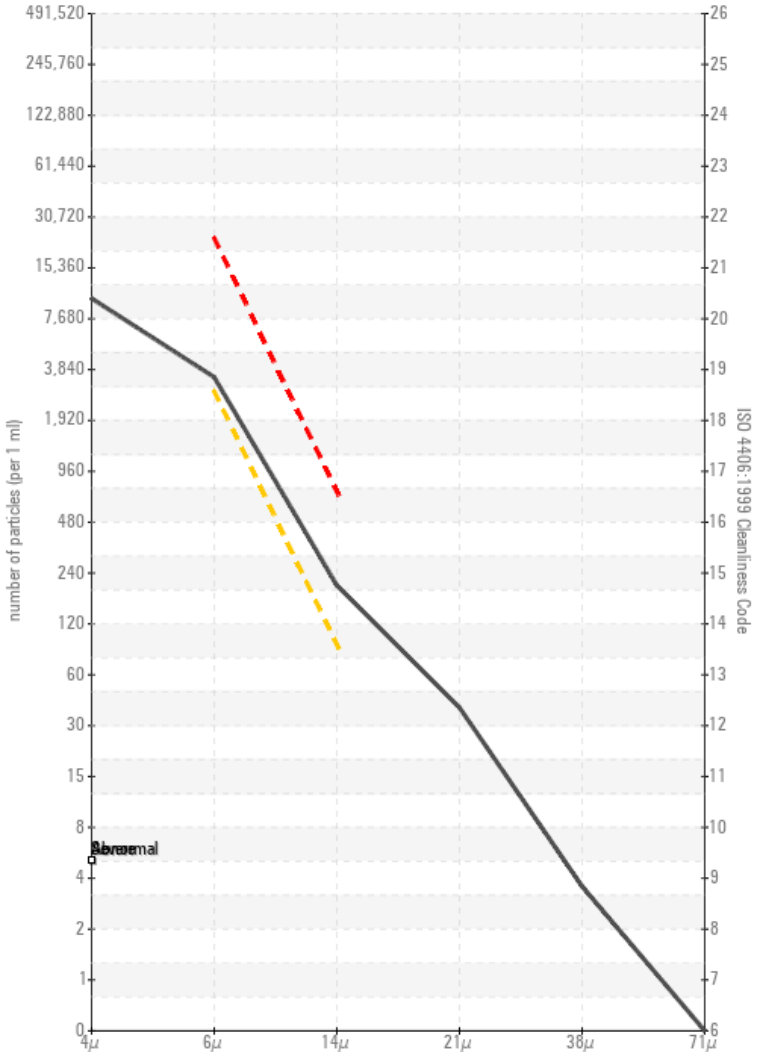
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

