



# CONSTRUCTION EQUIPMENT

## VOLVO L90H 05625448 - HYDRAULIC SYSTEM



**Sample No:** VCP436482  
**Oil Type:** VALVOLINE ALLFLEET 10W  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP436482</b>	VCP437125	VCP411571	---
Sample Date	<b>24 Apr 2024</b>	23 Jan 2024	10 Oct 2023	---
Machine Hours	<b>0</b>	6059	5552	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	ATTENTION	---

**CITY CARTING**  
 221 OLD GATE LN  
 MILFORD, CT  
 US 06460  
 Contact: TAVINS BANKS  
 tavins@citycart.net  
 T: (203)223-3885  
 F:

### OIL CONDITION

Visc @ 40°C	cSt	<b>40.8</b>	41.1	40.8	---
Acid Number (AN)	mg KOH/g	<b>0.87</b>	0.41	0.33	---

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Particles >4µm		<b>3444</b>	4821	5391	---
Particles >6µm		<b>923</b>	1200	1273	---
Particles >14µm		<b>83</b>	56	74	---
ISO 4406:1999 (c)		<b>19/17/14</b>	19/17/13	20/17/13	---
Silicon	ppm	<b>&lt;1</b>	5	3	---
Sodium	ppm	<b>2</b>	2	2	---
Potassium	ppm	<b>0</b>	<1	0	---

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

### WEAR METALS

Iron	ppm	<b>1</b>	2	5	---
Copper	ppm	<b>&lt;1</b>	<1	1	---
Lead	ppm	<b>&lt;1</b>	0	0	---
Tin	ppm	<b>0</b>	<1	0	---
Aluminum	ppm	<b>&lt;1</b>	<1	0	---
Chromium	ppm	<b>1</b>	1	2	---
Molybdenum	ppm	<b>36</b>	33	<1	---
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>	<1	0	---
Vanadium	ppm	<b>0</b>	<1	0	---

### ADDITIVES

Calcium	ppm	<b>1293</b>	1211	165	---
Magnesium	ppm	<b>131</b>	137	5	---
Zinc	ppm	<b>736</b>	705	463	---
Phosphorus	ppm	<b>631</b>	625	360	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>14</b>	27	2	---

**Depot:** CITMILCON  
**Unique No:** 11004997  
**Signed:** Wes Davis  
**Report Date:** 01 May 2024

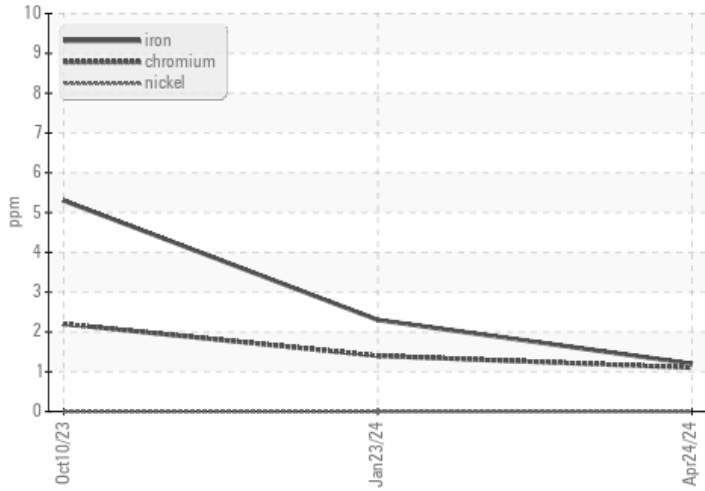


# CONSTRUCTION EQUIPMENT

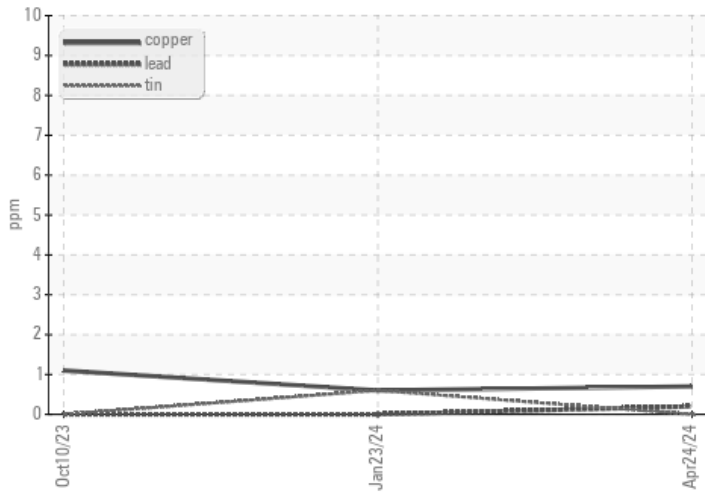


## VOLVO GRAPHS

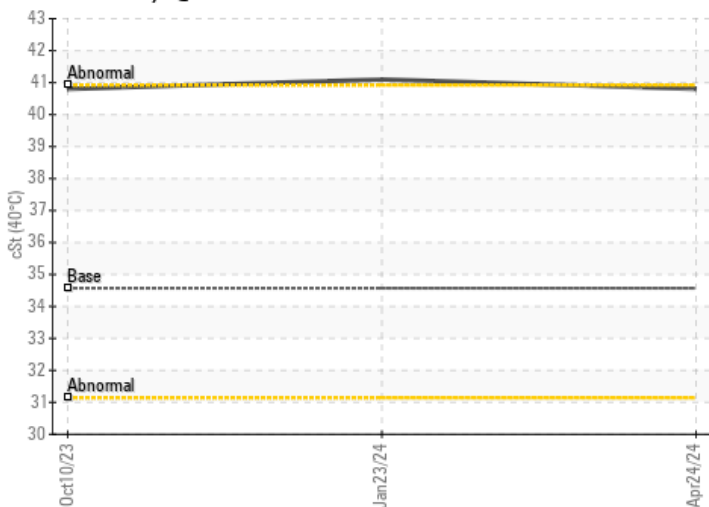
### Ferrous Alloys



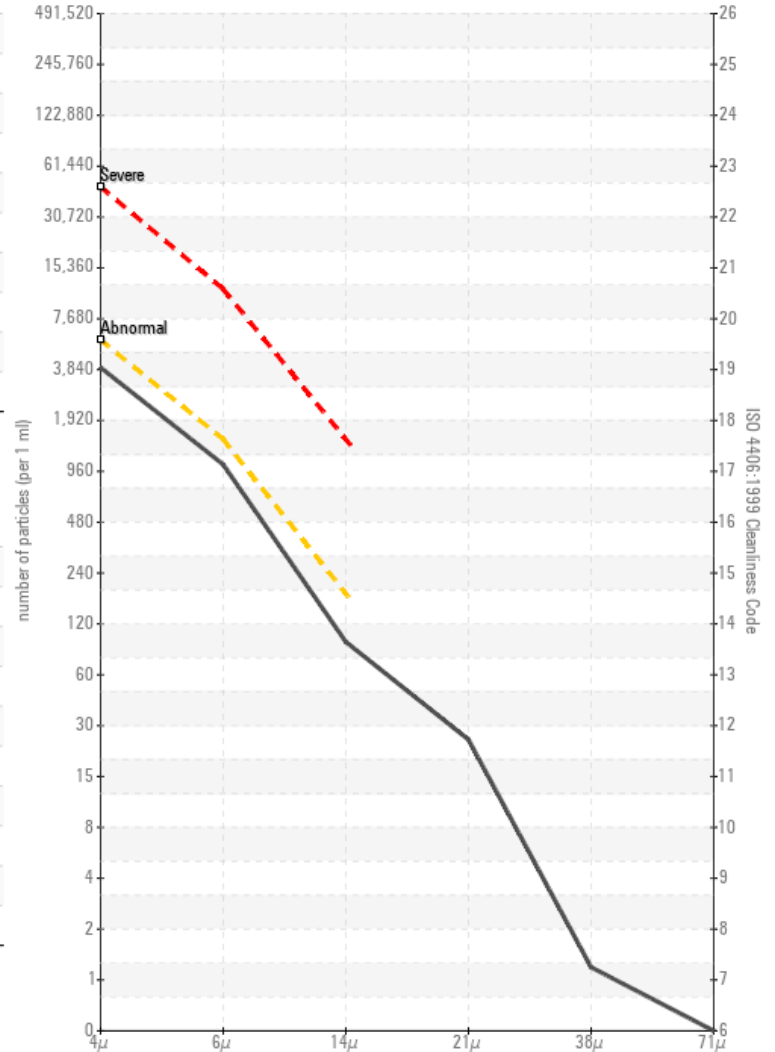
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

