



# CONSTRUCTION EQUIPMENT

## VOLVO L110H 05632247 - HYDRAULIC SYSTEM



**Sample No:** VCP407159  
**Oil Type:** VALVOLINE ALLFLEET 10W  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP407159</b>	VCP407934	VCP407668	---
Sample Date	<b>16 Oct 2023</b>	09 Aug 2023	17 May 2023	---
Machine Hours	<b>5396</b>	4793	4033	---
Oil Hours	<b>0</b>	0	947	---
Oil Changed	<b>Changed</b>	Not Changd	Not Changd	---
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>42.3</b>	41.0	41.1	---
Acid Number (AN)	mg KOH/g	<b>0.24</b>	0.42	0.36	---



### CONTAMINATION

Particles >4µm		<b>1181</b>	2040	6058	---
Particles >6µm		<b>165</b>	432	1659	---
Particles >14µm		<b>11</b>	48	▲ 115	---
ISO 4406:1999 (c)		<b>17/15/11</b>	18/16/13	20/18/14	---
Silicon	ppm	<b>4</b>	3	3	---
Sodium	ppm	<b>0</b>	0	<1	---
Potassium	ppm	<b>2</b>	<1	1	---

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



### WEAR METALS

Iron	ppm	<b>8</b>	7	6	---
Copper	ppm	<b>3</b>	2	2	---
Lead	ppm	<b>2</b>	2	1	---
Tin	ppm	<b>0</b>	0	0	---
Aluminum	ppm	<b>2</b>	<1	0	---
Chromium	ppm	<b>3</b>	2	2	---
Molybdenum	ppm	<b>18</b>	17	17	---
Nickel	ppm	<b>0</b>	0	0	---
Titanium	ppm	<b>&lt;1</b>	0	0	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>0</b>	0	0	---
Vanadium	ppm	<b>0</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>811</b>	800	823	---
Magnesium	ppm	<b>58</b>	58	58	---
Zinc	ppm	<b>633</b>	615	625	---
Phosphorus	ppm	<b>508</b>	505	495	---
Barium	ppm	<b>3</b>	0	0	---
Boron	ppm	<b>16</b>	15	14	---

**Depot:** CITMILCON  
**Unique No:** 10711776  
**Signed:** Don Baldrige  
**Report Date:** 27 Oct 2023

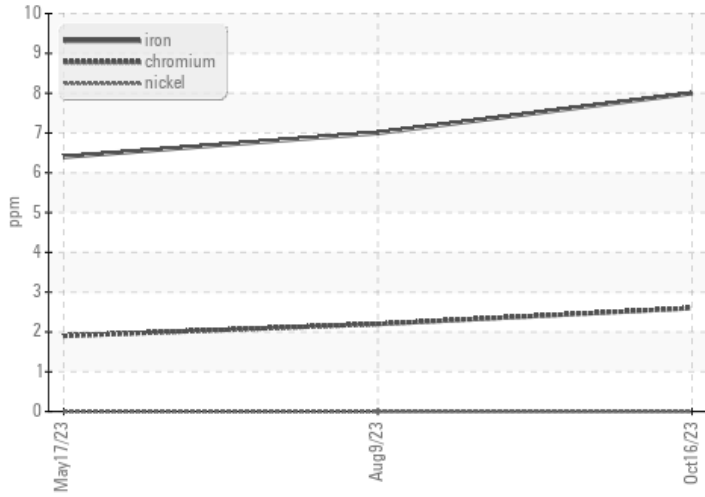


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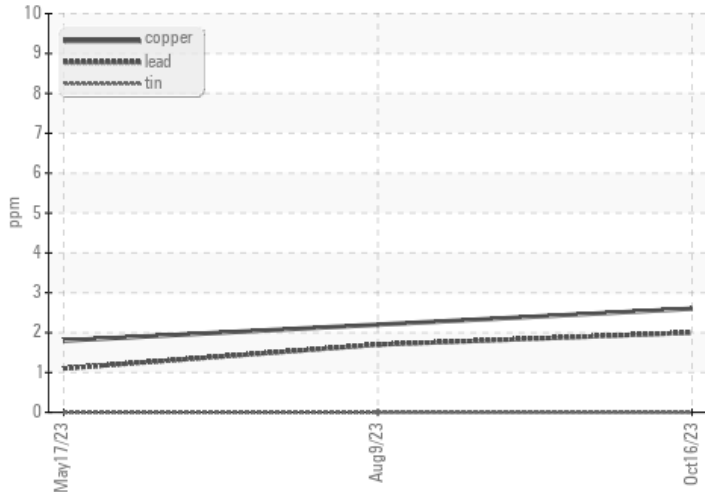


## VOLVO GRAPHS

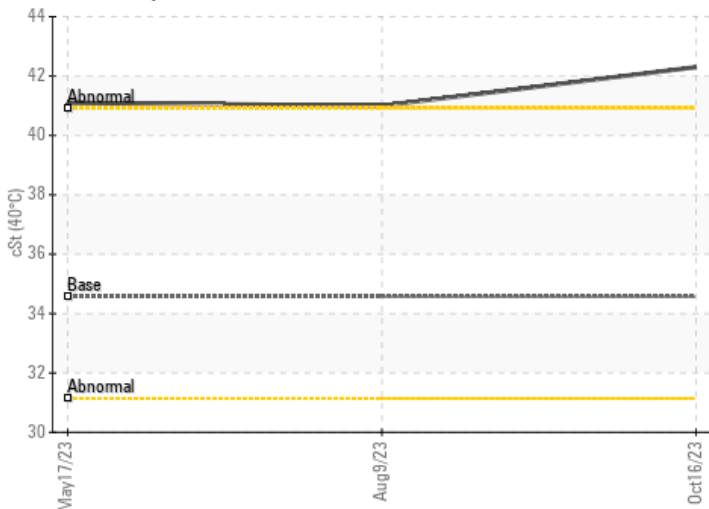
Ferrous Alloys



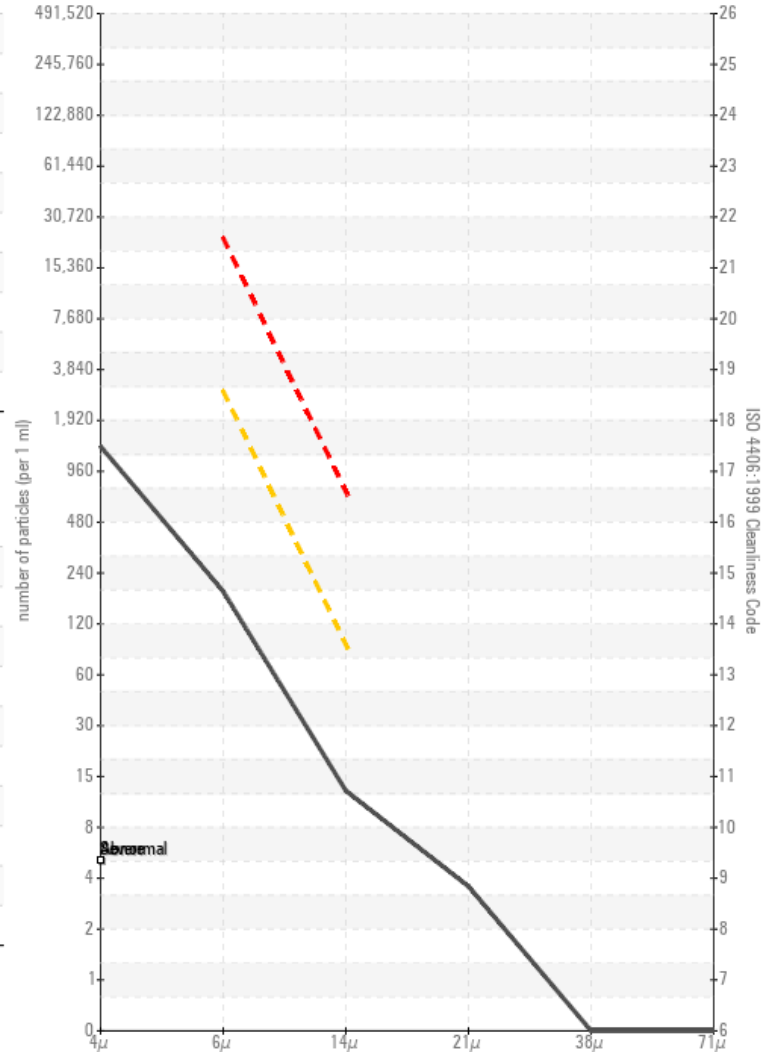
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

