



# CONSTRUCTION EQUIPMENT

## VOLVO L70H 05262376 (S/N 052623276) - HYDRAULIC SYSTEM



**Sample No:** VCP436491  
**Oil Type:** VALVOLINE ALLFLEET 10W  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP436491</b>	VCP364641	VCP383241	VCP267025
Sample Date	<b>06 May 2024</b>	22 Sep 2023	06 Feb 2023	26 Feb 2020
Machine Hours	<b>0</b>	5487	4750	1418
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	N/A	N/A
Sample Status	<b>ABNORMAL</b>	NORMAL	NORMAL	ABNORMAL

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

### OIL CONDITION

Visc @ 40°C	cSt	<b>41.7</b>	41.2	41.7	40.6
Acid Number (AN)	mg KOH/g	<b>0.93</b>	0.62	0.83	0.390

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>25915</b>	3018	3426	---
Particles >6µm		<b>3799</b>	191	373	---
Particles >14µm		<b>62</b>	10	13	---
ISO 4406:1999 (c)		<b>22/19/13</b>	19/15/10	19/16/11	---
Silicon	ppm	<b>6</b>	8	7	2
Sodium	ppm	<b>&lt;1</b>	2	2	<1
Potassium	ppm	<b>0</b>	<1	0	<1

**Diagnosis**  
 Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present 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>2</b>	6	5	4
Copper	ppm	<b>&lt;1</b>	2	1	2
Lead	ppm	<b>0</b>	1	<1	1
Tin	ppm	<b>&lt;1</b>	0	0	<1
Aluminum	ppm	<b>&lt;1</b>	1	0	0
Chromium	ppm	<b>1</b>	3	2	2
Molybdenum	ppm	<b>47</b>	34	32	<1
Nickel	ppm	<b>0</b>	<1	0	0
Titanium	ppm	<b>0</b>	<1	<1	0
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>&lt;1</b>	0	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>1765</b>	1413	1497	73
Magnesium	ppm	<b>137</b>	96	89	2
Zinc	ppm	<b>863</b>	852	757	466
Phosphorus	ppm	<b>736</b>	663	566	356
Barium	ppm	<b>&lt;1</b>	0	0	0
Boron	ppm	<b>41</b>	28	26	<1

**Depot:** CITMILCON  
**Unique No:** 11019881  
**Signed:** Don Baldrige  
**Report Date:** 14 May 2024

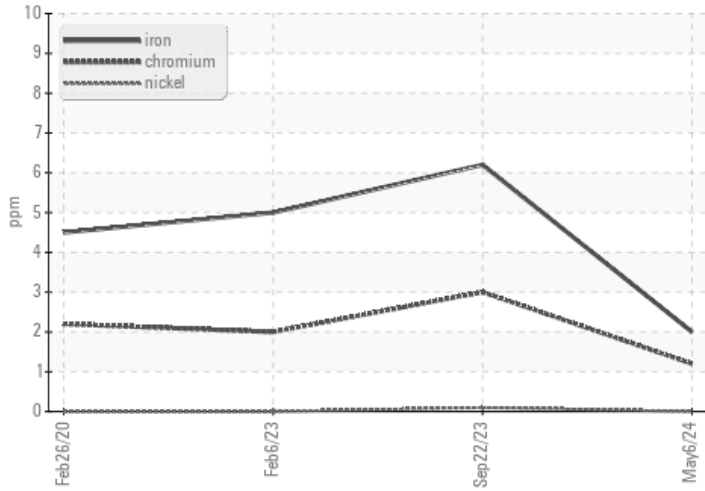


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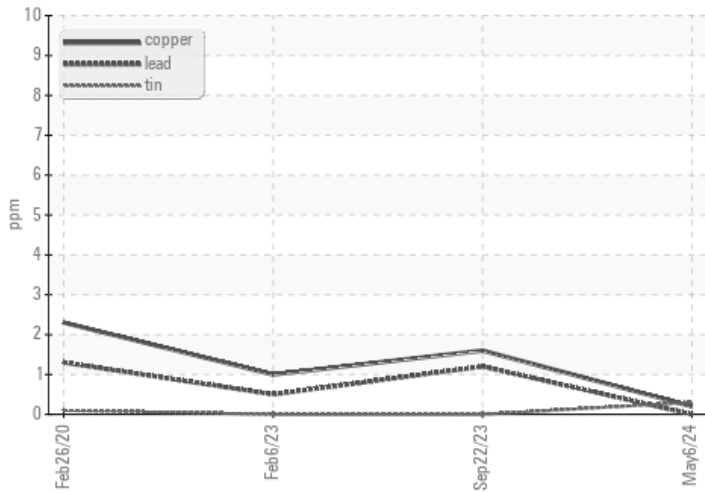


## GRAPHS

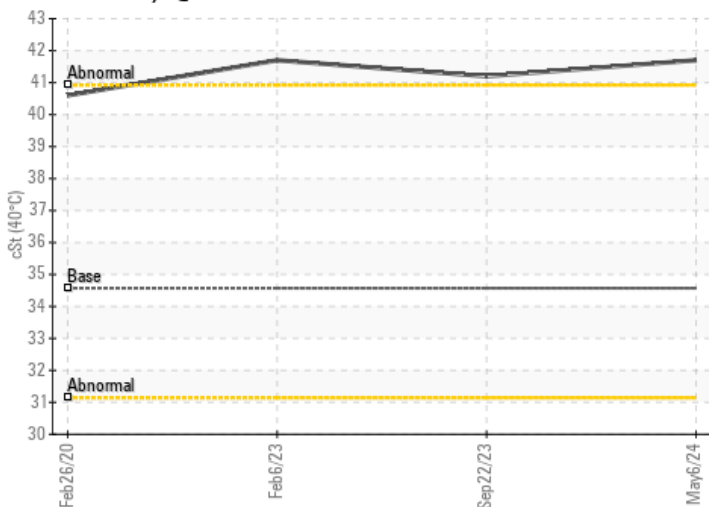
### Ferrous Alloys



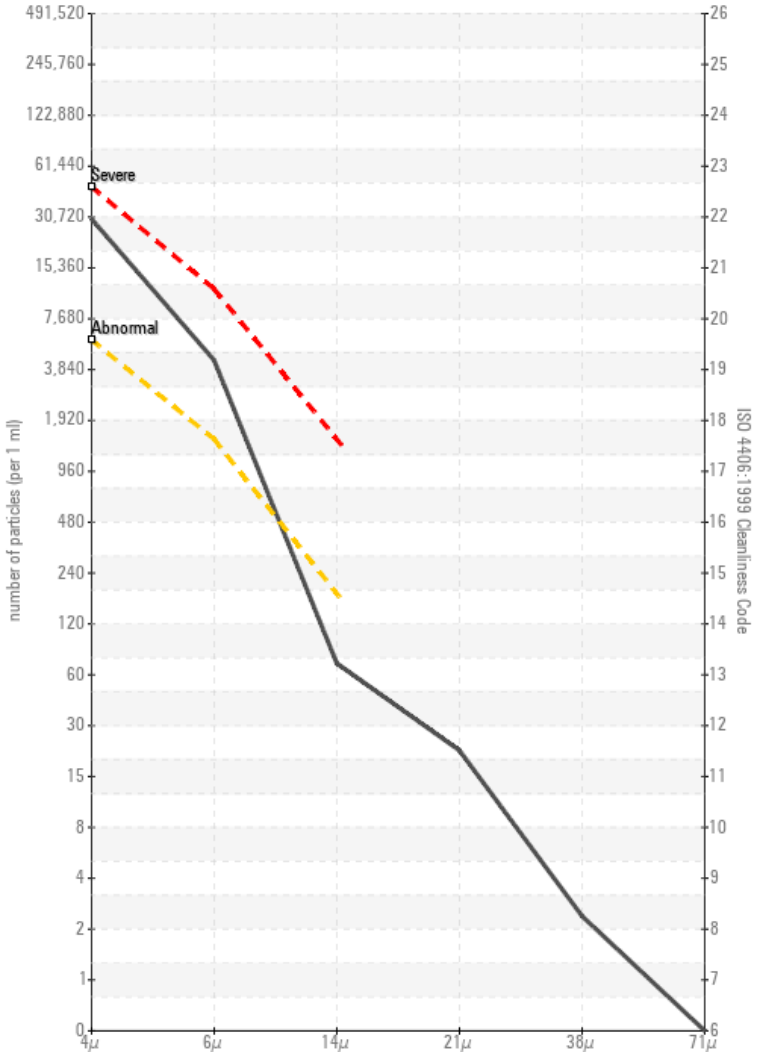
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

