



# CONSTRUCTION EQUIPMENT

## TUCKER VOLVO L110H 631215 - HYDRAULIC SYSTEM



**Sample No:** VCP449738  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** TUCKER



ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC  
 8418 PALM RIVER ROAD  
 TAMPA, FL  
 US 33619  
 Contact: KENNY HANEY  
 khaney@flaglerce.com  
 T: (813)630-0077  
 F: (813)630-2233



### SAMPLE INFORMATION

Sample Number	<b>VCP449738</b>	VCP371175	VCP402338	VCP374615
Sample Date	<b>23 May 2024</b>	09 Nov 2023	07 Mar 2023	10 Jun 2022
Machine Hours	<b>13545</b>	12508	11469	10090
Oil Hours	<b>0</b>	4000	3000	1500
Oil Changed	<b>Not Chngd</b>	Changed	Not Chngd	Not Chngd
Sample Status	<b>ATTENTION</b>	NORMAL	ATTENTION	ATTENTION



### OIL CONDITION

Visc @ 40°C	cSt	<b>49.1</b>	48.3	64.6	46.6
Acid Number (AN)	mg KOH/g	<b>0.35</b>	0.32	0.32	0.32



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>8919</b>	624	2635	22883
Particles >6µm		<b>1912</b>	125	551	3538
Particles >14µm		<b>132</b>	12	41	145
ISO 4406:1999 (c)		<b>20/18/14</b>	16/14/11	19/16/13	22/19/14
Silicon	ppm	<b>2</b>	7	18	7
Sodium	ppm	<b>&lt;1</b>	0	<1	0
Potassium	ppm	<b>0</b>	2	<1	<1



### WEAR METALS

Iron	ppm	<b>3</b>	16	5	11
Copper	ppm	<b>&lt;1</b>	4	2	3
Lead	ppm	<b>0</b>	2	0	1
Tin	ppm	<b>0</b>	<1	0	<1
Aluminum	ppm	<b>&lt;1</b>	2	<1	4
Chromium	ppm	<b>0</b>	1	0	<1
Molybdenum	ppm	<b>0</b>	2	<1	1
Nickel	ppm	<b>0</b>	<1	0	0
Titanium	ppm	<b>0</b>	<1	0	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	0
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>118</b>	108	36	105
Magnesium	ppm	<b>8</b>	13	<1	15
Zinc	ppm	<b>425</b>	449	353	451
Phosphorus	ppm	<b>347</b>	301	303	340
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>5</b>	<1	0	2

### Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a light 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.

**Depot:** VOLVO0093  
**Unique No:** 11048865  
**Signed:** Wes Davis  
**Report Date:** 29 May 2024

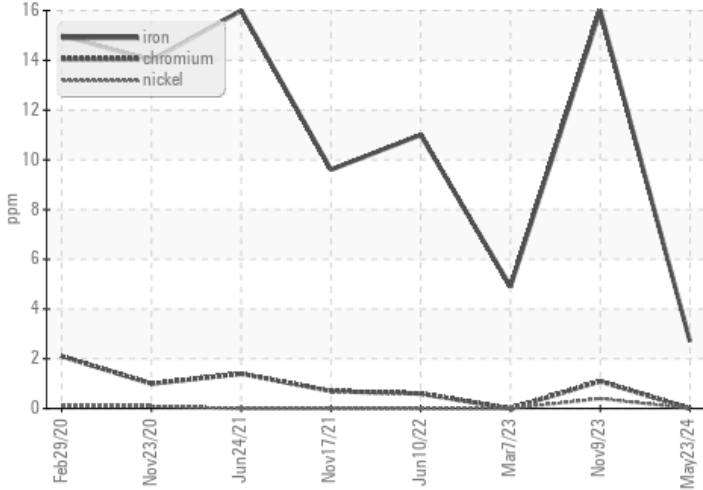


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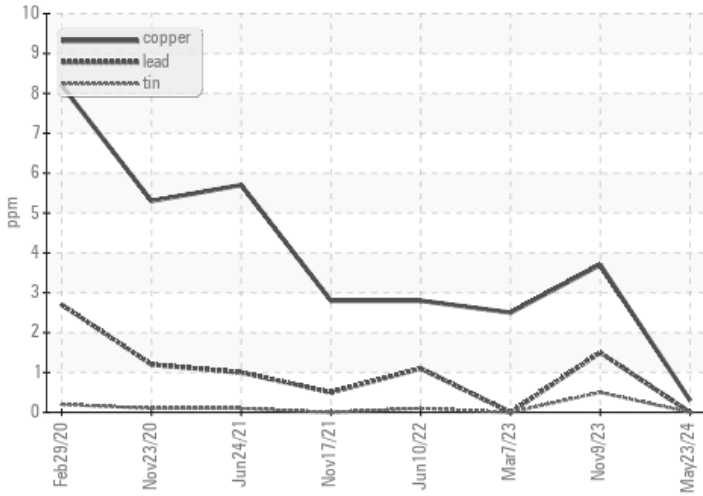


## GRAPHS

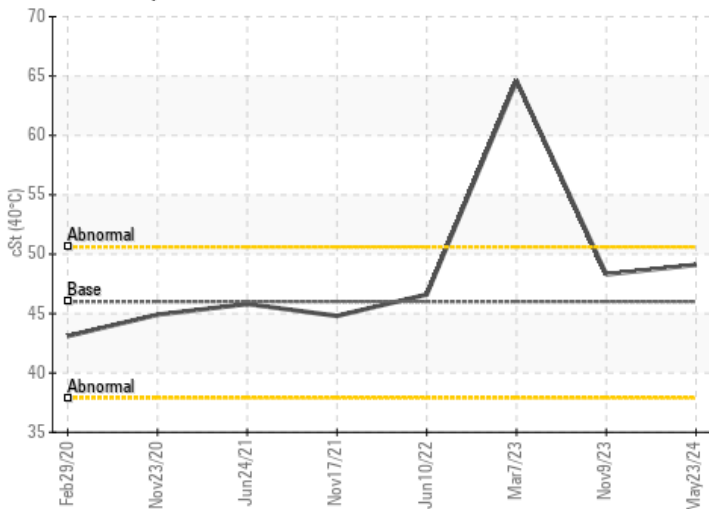
### Ferrous Alloys



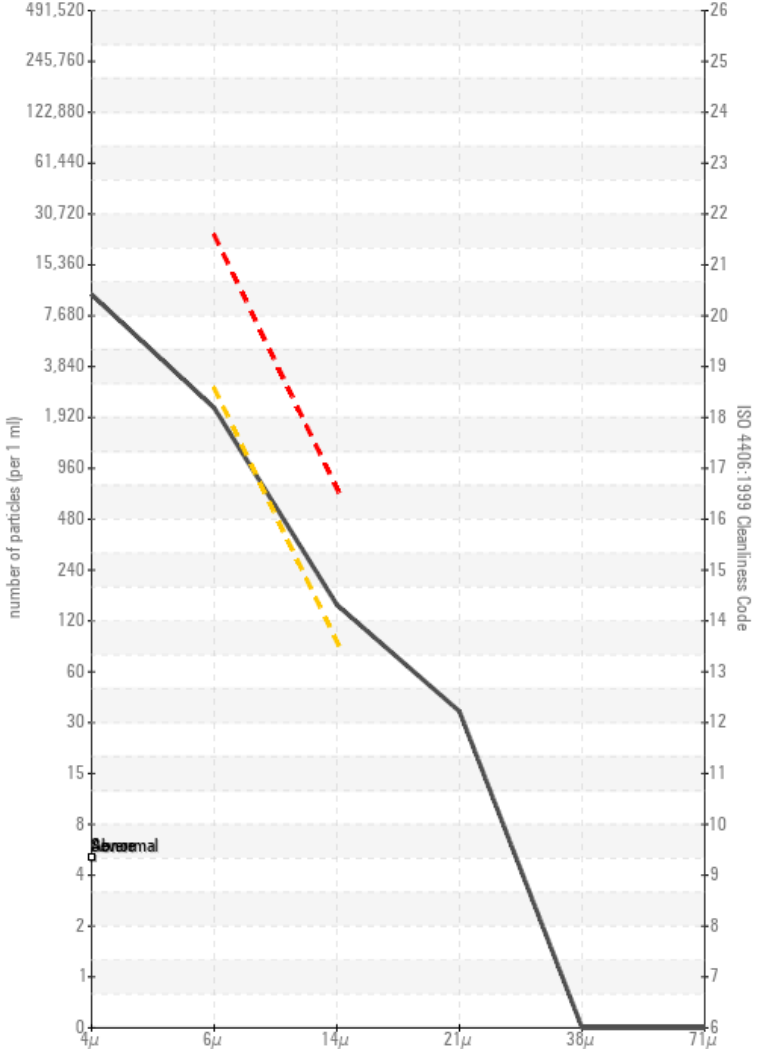
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

