



# CONSTRUCTION EQUIPMENT

## A11315 VOLVO L110F 5151 - HYDRAULIC SYSTEM



**Sample No:** VCP412832  
**Oil Type:** MOBIL HYDRAULIC OIL AW 46  
**Job No:** A11315



### SAMPLE INFORMATION

Sample Number	<b>VCP412832</b>	VCP407487	VCE158778	VCP130346
Sample Date	<b>19 Oct 2023</b>	08 May 2023	12 Sep 2012	23 Jul 2012
Machine Hours	<b>24830</b>	23415	0	2022
Oil Hours	<b>2000</b>	1000	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	N/A	Not Chngd
Sample Status	<b>ABNORMAL</b>	ATTENTION	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>43.4</b>	44.1	38.52	39.53
Acid Number (AN)	mg KOH/g	<b>0.39</b>	0.34	0.562	0.592



### CONTAMINATION

Particles >4µm		<b>68972</b>	13899	6281	290
Particles >6µm		<b>16146</b>	2650	490	158
Particles >14µm		<b>481</b>	90	18	26
ISO 4406:1999 (c)		<b>23/21/16</b>	21/19/14	20/16/11	15/14/12
Silicon	ppm	<b>&lt;1</b>	<1	11	7
Sodium	ppm	<b>0</b>	0	<1	<1
Potassium	ppm	<b>2</b>	0	0	0

**Diagnosis**  
 No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates 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>3</b>	<1	3	3
Copper	ppm	<b>1</b>	0	2	2
Lead	ppm	<b>&lt;1</b>	0	<1	2
Tin	ppm	<b>0</b>	0	0	0
Aluminum	ppm	<b>2</b>	3	0	<1
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>&lt;1</b>	2	0	<1
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	<1	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	0	0
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>72</b>	93	42	37
Magnesium	ppm	<b>&lt;1</b>	1	<1	<1
Zinc	ppm	<b>438</b>	482	401	392
Phosphorus	ppm	<b>338</b>	375	358	346
Barium	ppm	<b>3</b>	0	0	<1
Boron	ppm	<b>0</b>	0	0	<1

**Depot:** COVBAl  
**Unique No:** 10711772  
**Signed:** Don Baldrige  
**Report Date:** 27 Oct 2023

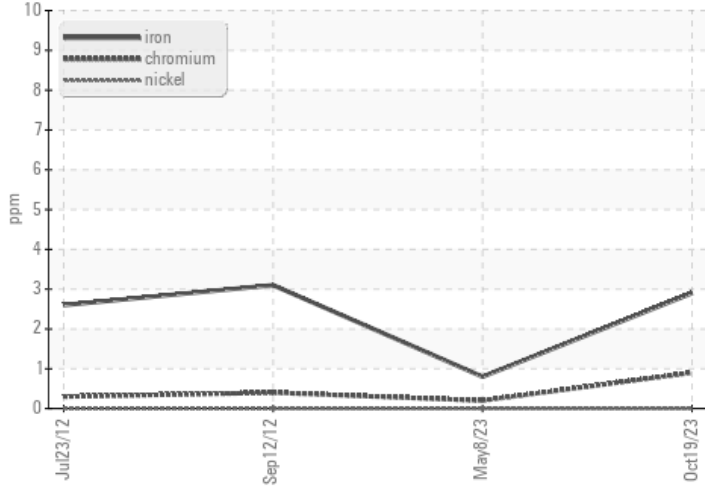


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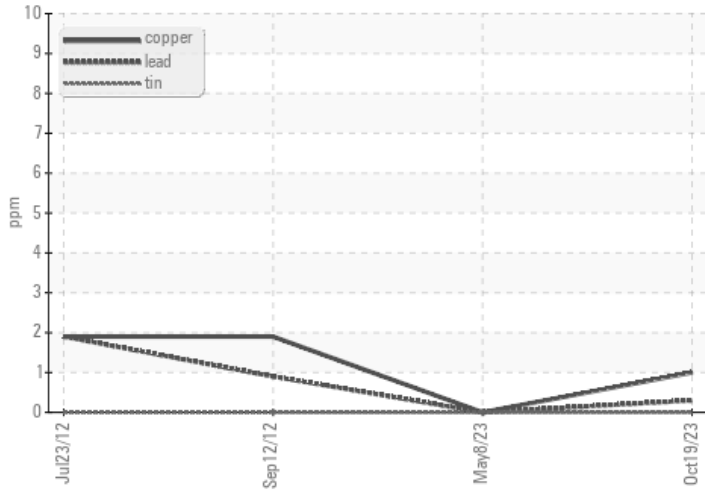


## GRAPHS

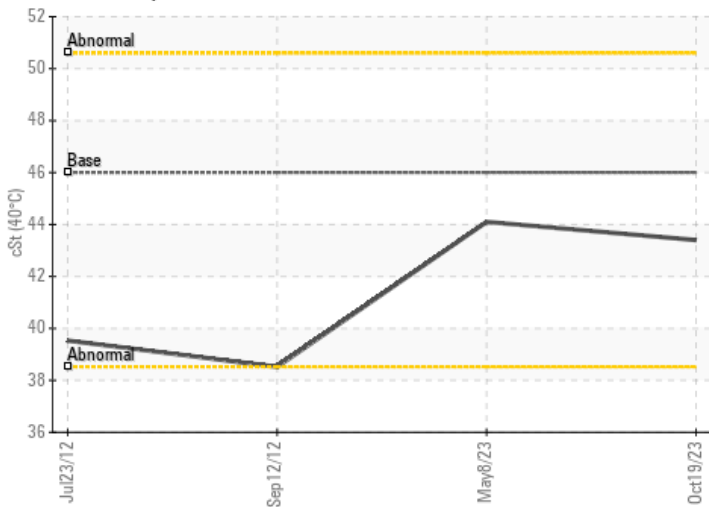
### Ferrous Alloys



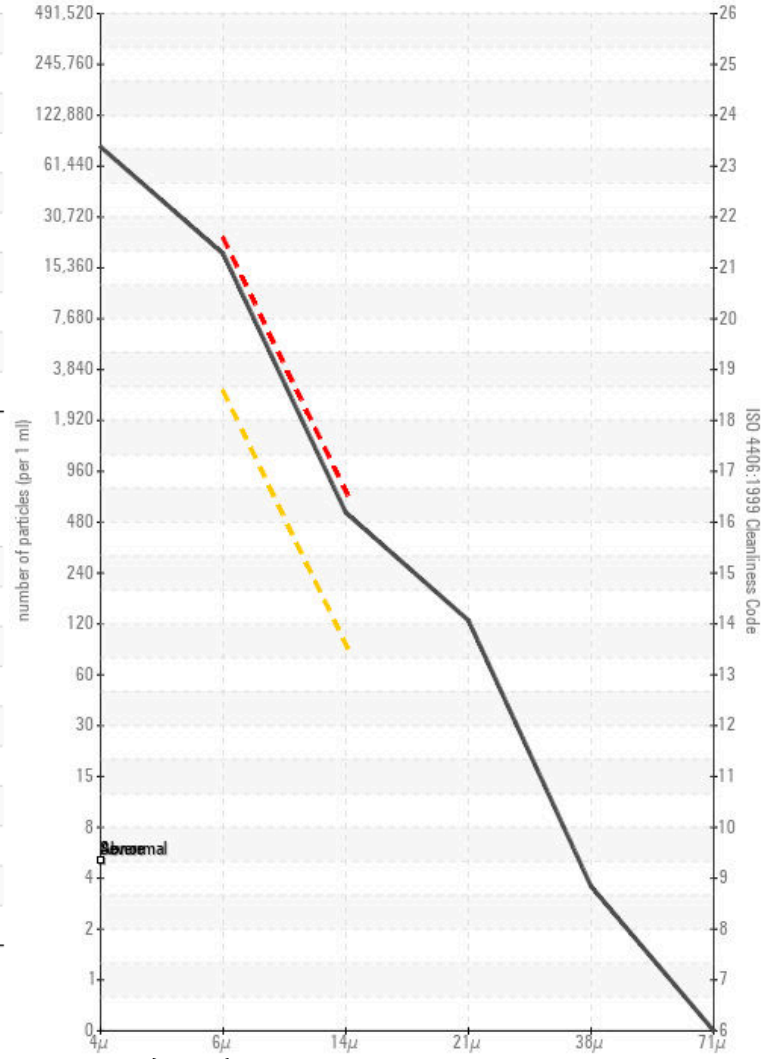
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

