



# CONSTRUCTION EQUIPMENT

## 701330 VOLVO L120H 632860 - HYDRAULIC SYSTEM



**Sample No:** VCP446376  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** 701330



### SAMPLE INFORMATION

Sample Number	<b>VCP446376</b>	VCP437445	VCP432770	VCP411727
Sample Date	<b>09 Apr 2024</b>	15 Jan 2024	06 Sep 2023	06 Jun 2023
Machine Hours	<b>7484</b>	6693	5768	4936
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Not Chngd
Sample Status	<b>ABNORMAL</b>	NORMAL	NORMAL	NORMAL

**ORANGE COUNTY SOLID WASTE**  
 5901 YOUNG PINE ROAD  
 ORLANDO, FL  
 US 32829  
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 F: (407)836-6650



### OIL CONDITION

Visc @ 40°C	cSt	<b>39.3</b>	38.9	42.1	42.3
Acid Number (AN)	mg KOH/g	<b>0.48</b>	0.42	0.42	0.42



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>8740</b>	3968	1592	3593
Particles >6µm		<b>2985</b>	927	175	800
Particles >14µm		<b>389</b>	38	8	54
ISO 4406:1999 (c)		<b>20/19/16</b>	19/17/12	18/15/10	19/17/13
Silicon	ppm	<b>4</b>	4	3	3
Sodium	ppm	<b>3</b>	3	3	3
Potassium	ppm	<b>&lt;1</b>	1	<1	1

### Diagnosis

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of particulates (2 to 100 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



### WEAR METALS

Iron	ppm	<b>3</b>	4	7	7
Copper	ppm	<b>0</b>	1	2	1
Lead	ppm	<b>&lt;1</b>	<1	<1	0
Tin	ppm	<b>0</b>	<1	0	0
Aluminum	ppm	<b>0</b>	<1	<1	0
Chromium	ppm	<b>&lt;1</b>	<1	1	1
Molybdenum	ppm	<b>1</b>	1	<1	1
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	0	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>151</b>	145	107	107
Magnesium	ppm	<b>17</b>	17	2	5
Zinc	ppm	<b>424</b>	427	445	474
Phosphorus	ppm	<b>361</b>	362	373	376
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>4</b>	5	0	<1

**Depot:** ORAORL  
**Unique No:** 10978667  
**Signed:** Wes Davis  
**Report Date:** 16 Apr 2024

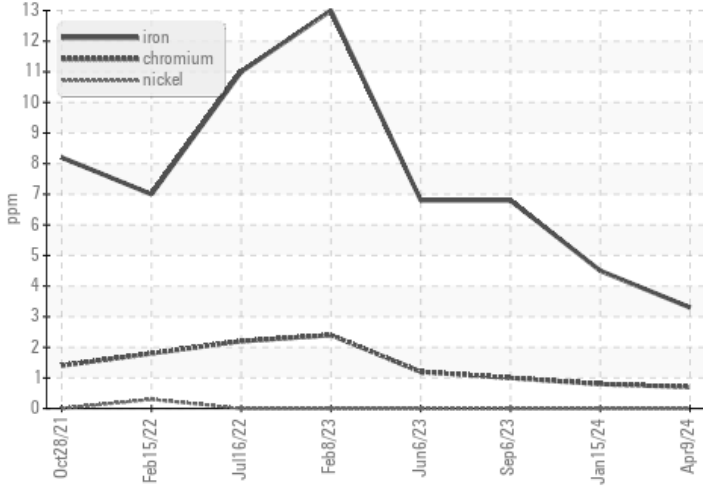


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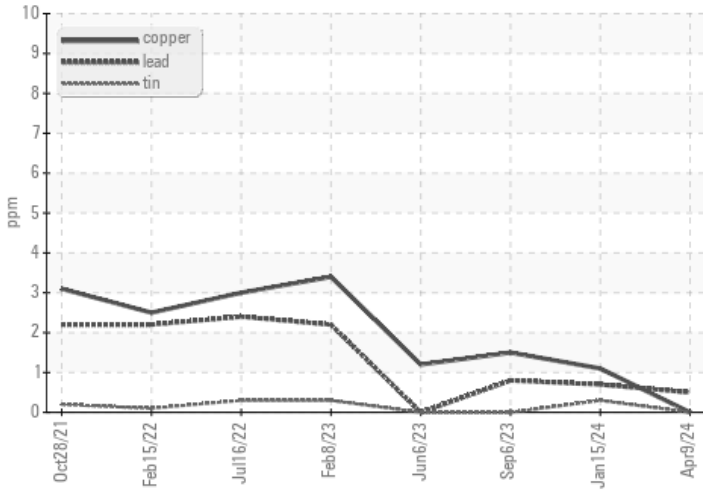


## GRAPHS

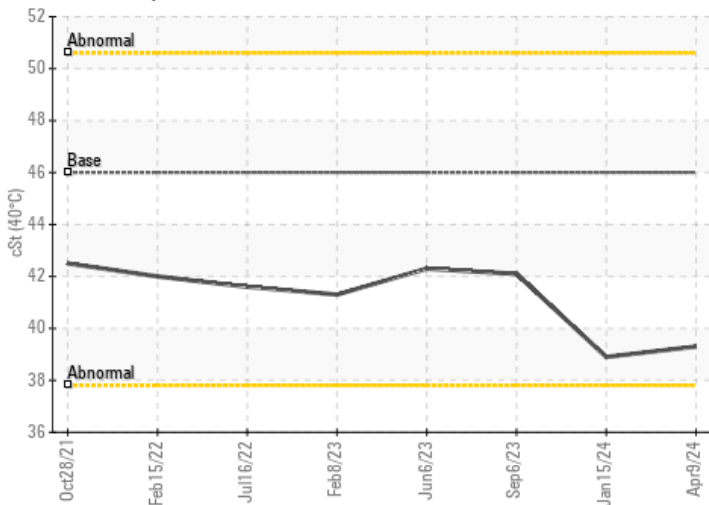
### Ferrous Alloys



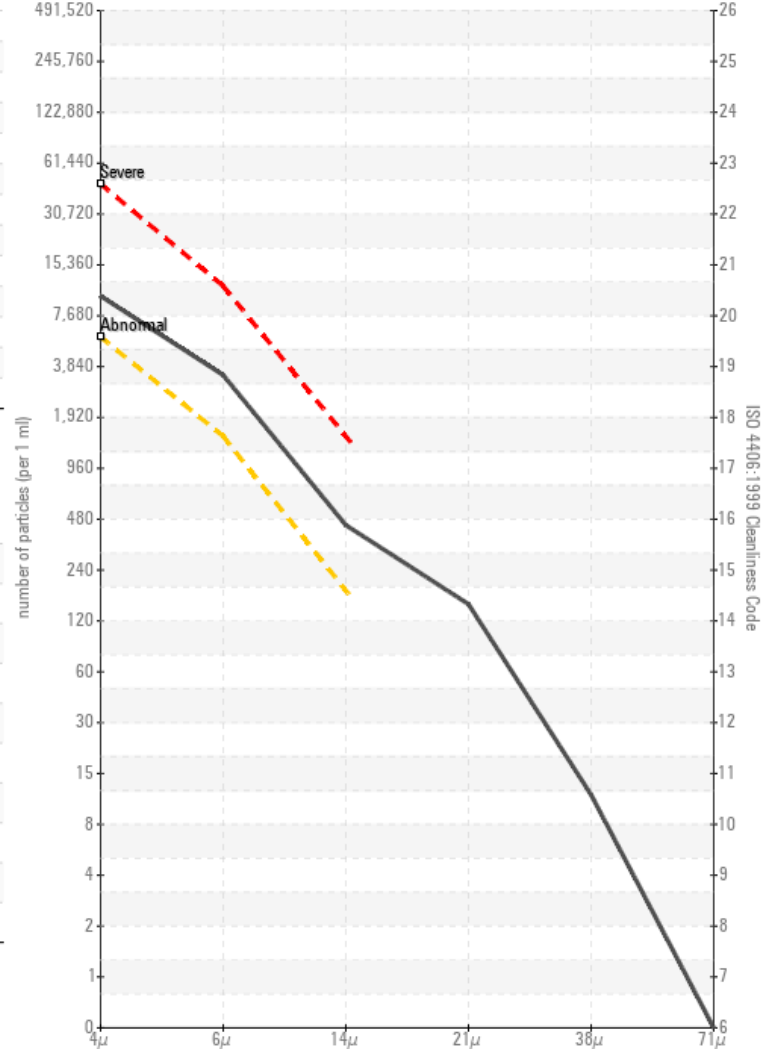
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

