



# CONSTRUCTION EQUIPMENT

## 701266 RITCHIE AUCT VOLVO L120H 632683 - HYDRAULIC SYSTEM



**Sample No:** VCP446499  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** 701266 RITCHIE AUCT



### SAMPLE INFORMATION

Sample Number	<b>VCP446499</b>	VCP437426	VCP432737	VCP420706
Sample Date	<b>09 Apr 2024</b>	16 Jan 2024	31 Aug 2023	11 May 2023
Machine Hours	<b>5736</b>	5187	4522	4061
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Changed
Sample Status	<b>ABNORMAL</b>	ABNORMAL	NORMAL	NORMAL

**ALTA EQUIPMENT/FLAGLER EQUIPMENT LLC**  
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### OIL CONDITION

Visc @ 40°C	cSt	<b>43.4</b>	44.5	44.8	43.7
Acid Number (AN)	mg KOH/g	<b>0.42</b>	0.36	0.40	0.28



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>10173</b>	6699	981	3358
Particles >6µm		<b>3326</b>	1434	241	428
Particles >14µm		<b>331</b>	113	27	33
ISO 4406:1999 (c)		<b>21/19/16</b>	20/18/14	17/15/12	19/16/12
Silicon	ppm	<b>2</b>	2	1	2
Sodium	ppm	<b>2</b>	0	<1	<1
Potassium	ppm	<b>0</b>	2	0	0

### 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	2	2
Copper	ppm	<b>2</b>	2	<1	2
Lead	ppm	<b>&lt;1</b>	3	<1	2
Tin	ppm	<b>&lt;1</b>	1	0	0
Aluminum	ppm	<b>0</b>	2	0	<1
Chromium	ppm	<b>&lt;1</b>	<1	0	0
Molybdenum	ppm	<b>&lt;1</b>	2	0	0
Nickel	ppm	<b>0</b>	<1	0	0
Titanium	ppm	<b>0</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>	<1	0	0



### ADDITIVES

Calcium	ppm	<b>57</b>	73	74	87
Magnesium	ppm	<b>2</b>	3	6	0
Zinc	ppm	<b>358</b>	463	415	453
Phosphorus	ppm	<b>306</b>	333	336	357
Barium	ppm	<b>0</b>	<1	6	0
Boron	ppm	<b>0</b>	0	0	0

**Depot:** VOLVO0096  
**Unique No:** 10980323  
**Signed:** Wes Davis  
**Report Date:** 17 Apr 2024

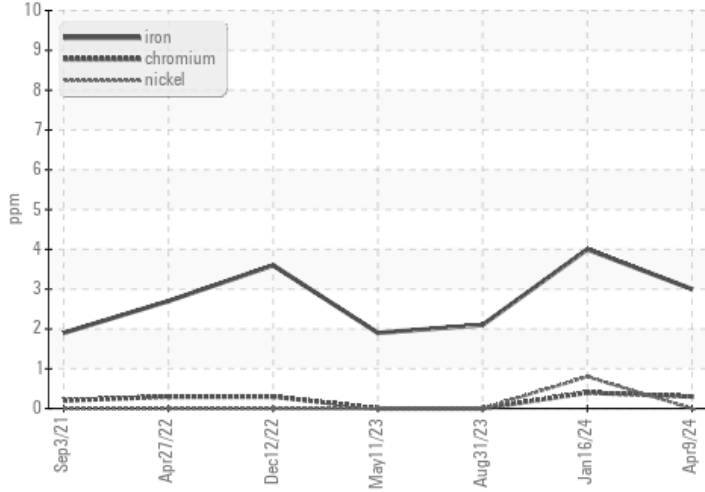


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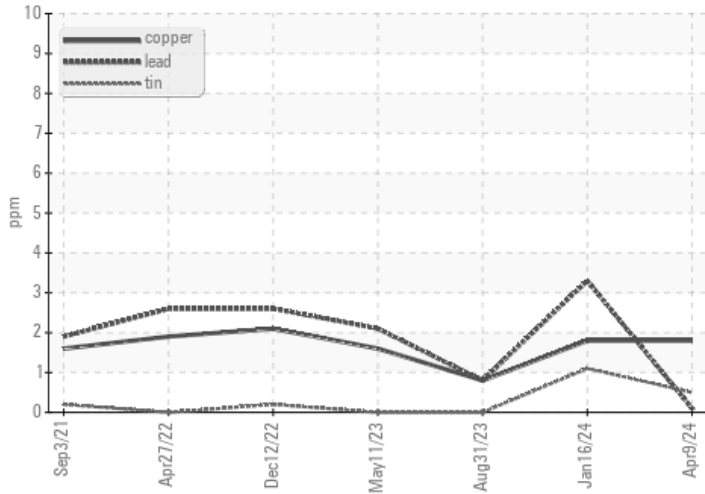


## VOLVO GRAPHS

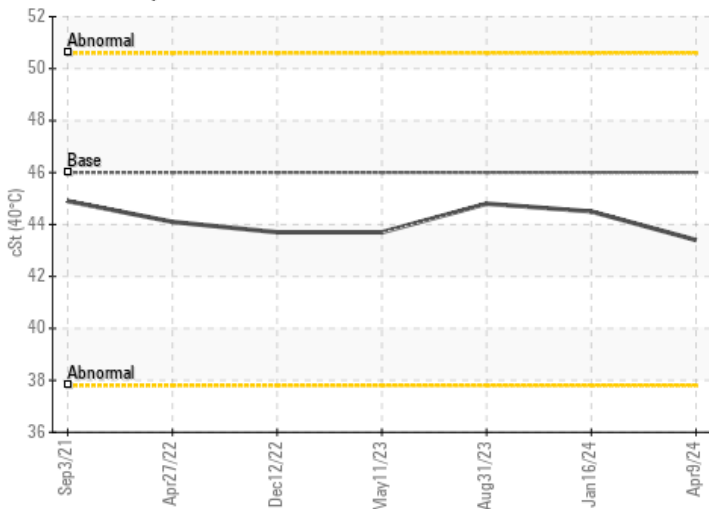
### Ferrous Alloys



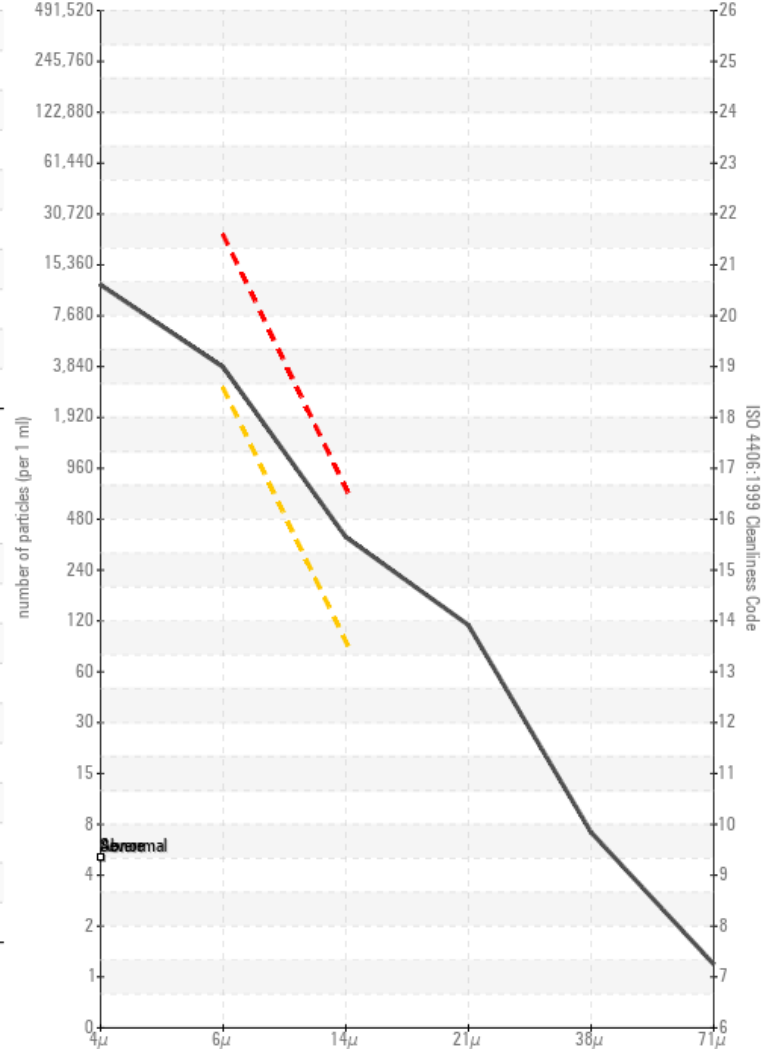
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

