



# CONSTRUCTION EQUIPMENT

660621 PRINCE VOLVO L120H 632683 - HYDRAULIC SYSTEM



**Sample No:** VCP437426  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** 660621 PRINCE



## SAMPLE INFORMATION

Sample Number	<b>VCP437426</b>	VCP432737	VCP420706	VCP370652
Sample Date	<b>16 Jan 2024</b>	31 Aug 2023	11 May 2023	12 Dec 2022
Machine Hours	<b>5187</b>	4522	4061	3124
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Changed	Not Chngd
Sample Status	<b>ABNORMAL</b>	NORMAL	NORMAL	NORMAL

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## OIL CONDITION

Visc @ 40°C	cSt	<b>44.5</b>	44.8	43.7	43.7
Acid Number (AN)	mg KOH/g	<b>0.36</b>	0.40	0.28	0.33

## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>6699</b>	981	3358	1226
Particles >6µm		<b>1434</b>	241	428	355
Particles >14µm		<b>▲ 113</b>	27	33	29
ISO 4406:1999 (c)		<b>20/18/14</b>	17/15/12	19/16/12	17/16/12
Silicon	ppm	<b>2</b>	1	2	3
Sodium	ppm	<b>0</b>	<1	<1	1
Potassium	ppm	<b>2</b>	0	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 condition of the oil is suitable for further service.

## WEAR METALS

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

## ADDITIVES

Calcium	ppm	<b>73</b>	74	87	91
Magnesium	ppm	<b>3</b>	6	0	<1
Zinc	ppm	<b>463</b>	415	453	425
Phosphorus	ppm	<b>333</b>	336	357	336
Barium	ppm	<b>&lt;1</b>	6	0	0
Boron	ppm	<b>0</b>	0	0	0

**Depot:** VOLVO0096  
**Unique No:** 10845013  
**Signed:** Wes Davis  
**Report Date:** 24 Jan 2024

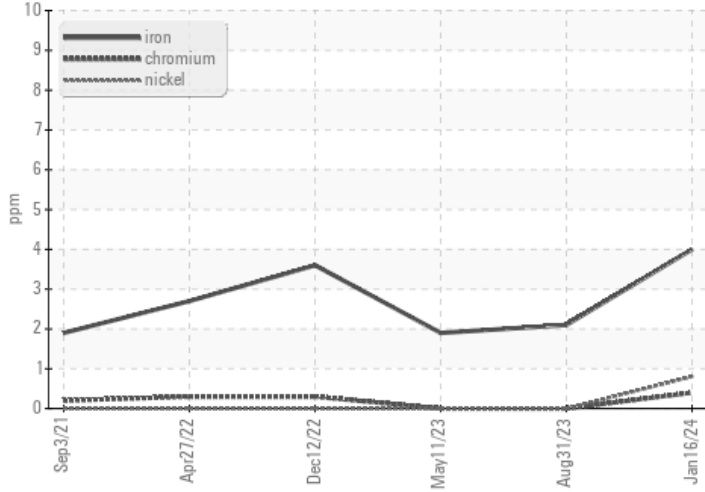


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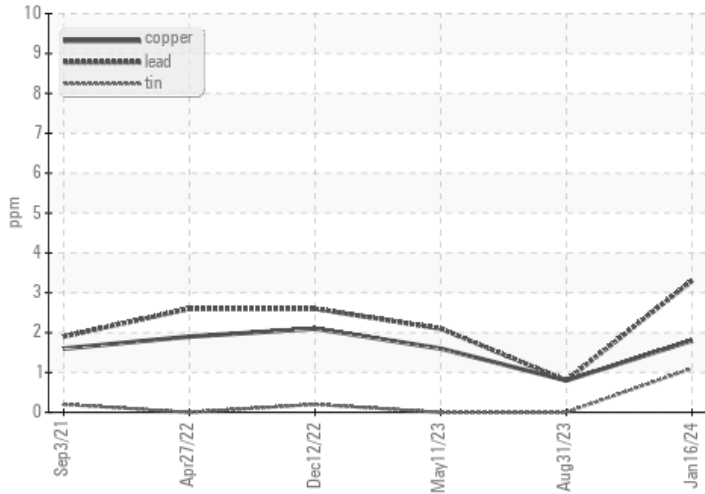


## VOLVO GRAPHS

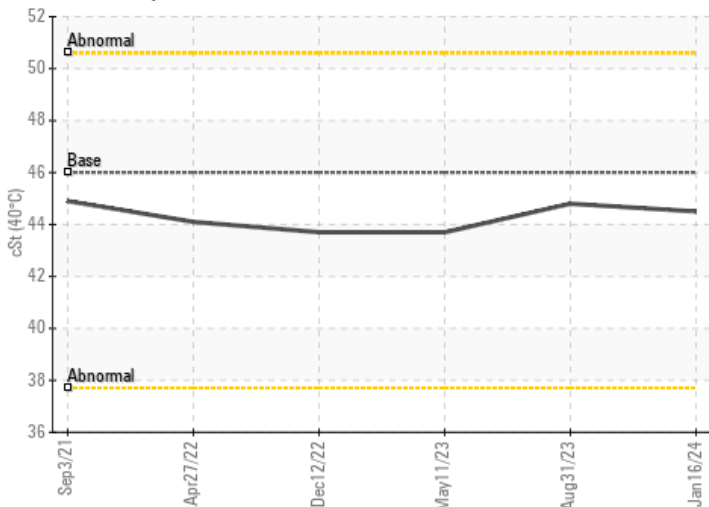
### Ferrous Alloys



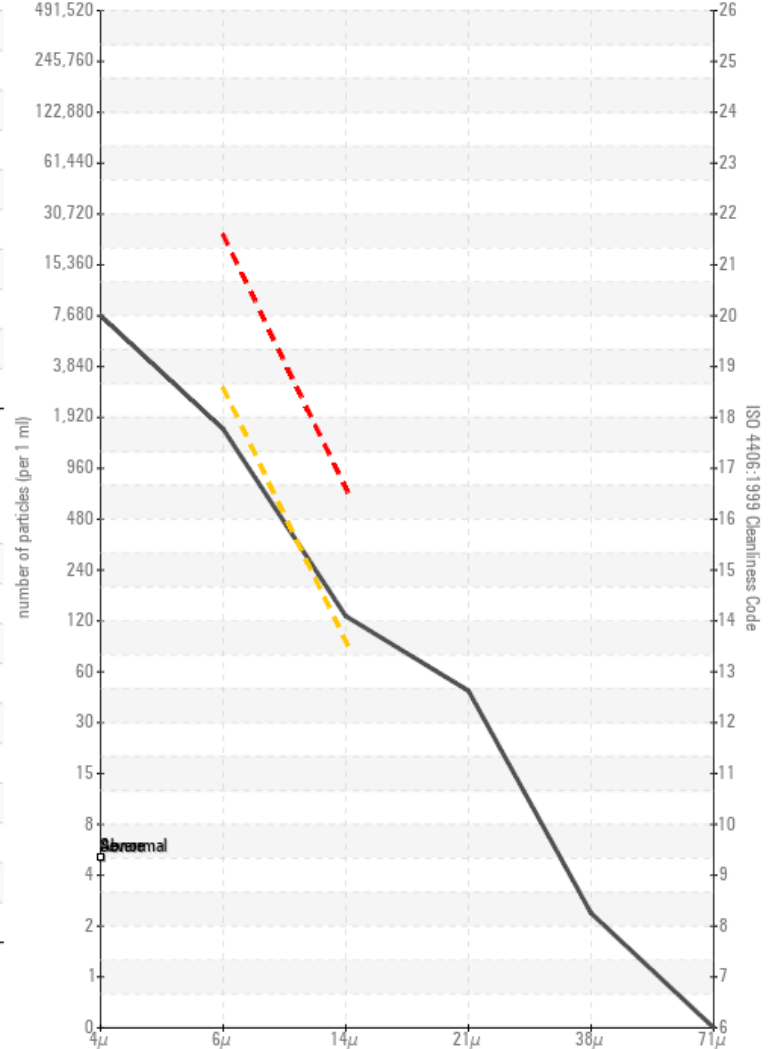
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

