



# CONSTRUCTION EQUIPMENT

## D13254 WM FOND DU LA VOLVO L120H 632883 - HYDRAULIC SYSTEM



**Sample No:** VCP429547  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** D13254 WM FOND DU LA



### SAMPLE INFORMATION

Sample Number	<b>VCP429547</b>	VCP414087	VCP419534	VCP382371
Sample Date	<b>19 Jan 2024</b>	05 Oct 2023	12 Jun 2023	17 Jan 2023
Machine Hours	<b>6719</b>	6027	5382	4350
Oil Hours	<b>2565</b>	1673	1350	4350
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Changed
Sample Status	<b>ABNORMAL</b>	ABNORMAL	ABNORMAL	NORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>41.3</b>	41.3	41.7	39.5
Acid Number (AN)	mg KOH/g	<b>0.41</b>	0.25	0.22	0.35



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>27751</b>	10899	39313	1243
Particles >6µm		<b>4795</b>	3194	17447	196
Particles >14µm		<b>319</b>	267	2958	13
ISO 4406:1999 (c)		<b>22/19/15</b>	21/19/15	22/21/19	17/15/11
Silicon	ppm	<b>12</b>	1	1	2
Sodium	ppm	<b>2</b>	<1	1	<1
Potassium	ppm	<b>1</b>	0	0	<1

### Diagnosis

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 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>17</b>	1	1	3
Copper	ppm	<b>6</b>	1	<1	<1
Lead	ppm	<b>3</b>	0	0	<1
Tin	ppm	<b>0</b>	0	0	0
Aluminum	ppm	<b>4</b>	0	0	0
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>&lt;1</b>	<1	<1	<1
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	0	0	0
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>160</b>	58	63	65
Magnesium	ppm	<b>8</b>	0	4	8
Zinc	ppm	<b>468</b>	416	419	449
Phosphorus	ppm	<b>357</b>	313	354	367
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>&lt;1</b>	0	0	0

**Depot:** VOLVO0069  
**Unique No:** 10849419  
**Signed:** Wes Davis  
**Report Date:** 30 Jan 2024

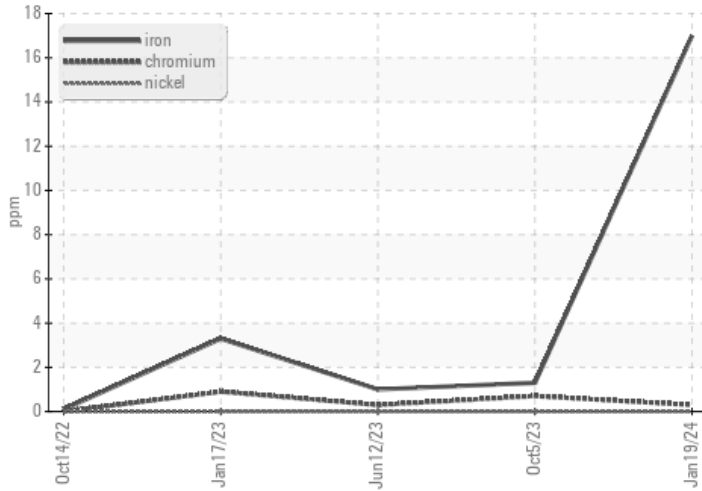


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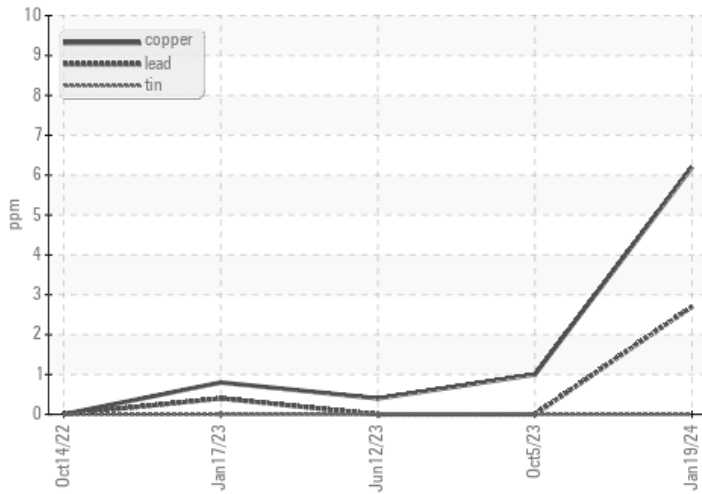


## GRAPHS

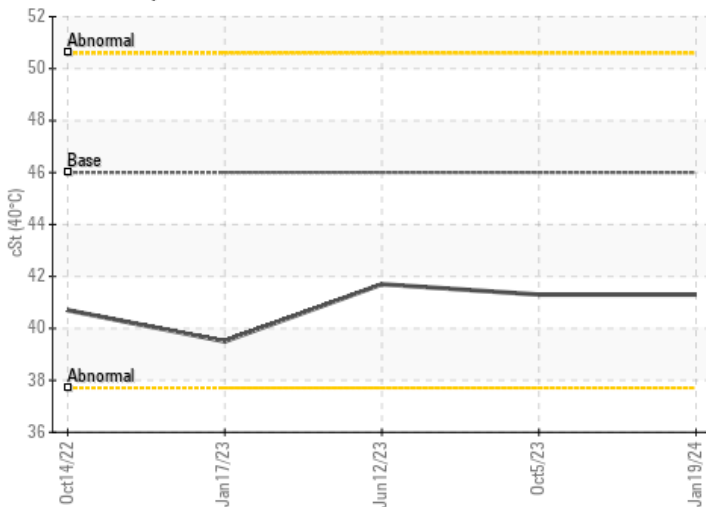
### Ferrous Alloys



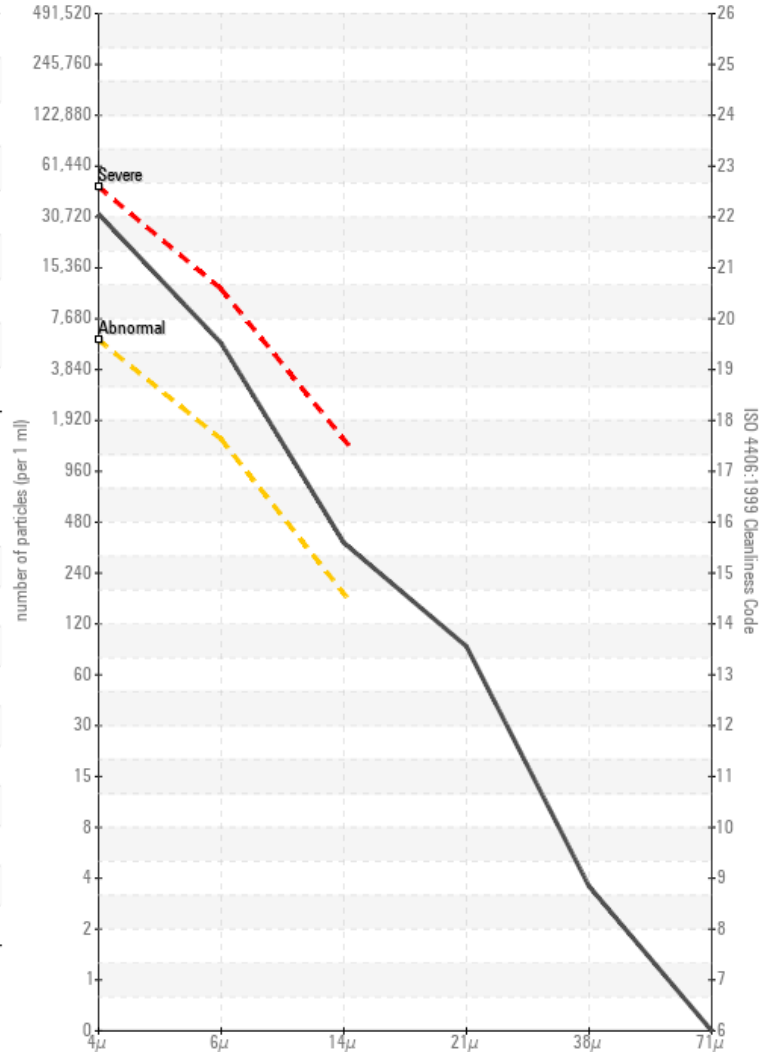
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

