



# CONSTRUCTION EQUIPMENT

## X48132 - HYDRAULIC SYSTEM



**Sample No:** VCP452475  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** X48132



### SAMPLE INFORMATION

Sample Number	<b>VCP452475</b>	VCP450960	VCP430384	---
Sample Date	<b>07 May 2024</b>	02 May 2024	29 Feb 2024	---
Machine Hours	<b>1714</b>	2138	1960	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>N/A</b>	N/A	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

**C & D LANDFILL**  
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 US 37076  
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### OIL CONDITION

Visc @ 40°C	cSt	<b>41.8</b>	42.2	41.7	---
Acid Number (AN)	mg KOH/g	<b>0.50</b>	0.50	0.66	---



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Particles >4µm		<b>6001</b>	6633	1365	---
Particles >6µm		<b>438</b>	299	97	---
Particles >14µm		<b>10</b>	21	8	---
ISO 4406:1999 (c)		<b>20/16/10</b>	20/15/12	18/14/10	---
Silicon	ppm	<b>4</b>	4	5	---
Sodium	ppm	<b>1</b>	<1	2	---
Potassium	ppm	<b>0</b>	0	0	---

**Diagnosis**  
 Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. 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>	3	5	---
Copper	ppm	<b>11</b>	15	19	---
Lead	ppm	<b>&lt;1</b>	0	3	---
Tin	ppm	<b>&lt;1</b>	<1	0	---
Aluminum	ppm	<b>&lt;1</b>	0	<1	---
Chromium	ppm	<b>&lt;1</b>	<1	0	---
Molybdenum	ppm	<b>0</b>	0	0	---
Nickel	ppm	<b>0</b>	0	0	---
Titanium	ppm	<b>&lt;1</b>	0	0	---
Silver	ppm	<b>&lt;1</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	<1	0	---
Vanadium	ppm	<b>0</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>125</b>	160	199	---
Magnesium	ppm	<b>0</b>	0	<1	---
Zinc	ppm	<b>461</b>	530	558	---
Phosphorus	ppm	<b>388</b>	416	447	---
Barium	ppm	<b>0</b>	<1	0	---
Boron	ppm	<b>0</b>	0	0	---

**Depot:** CDLHER  
**Unique No:** 11034065  
**Signed:** Wes Davis  
**Report Date:** 22 May 2024

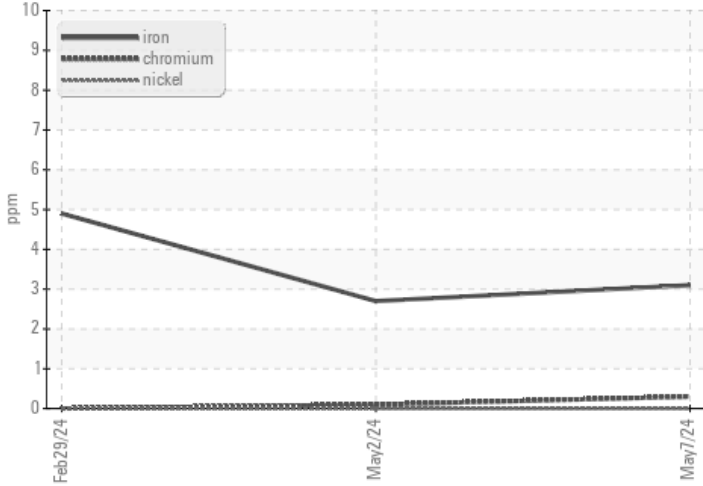


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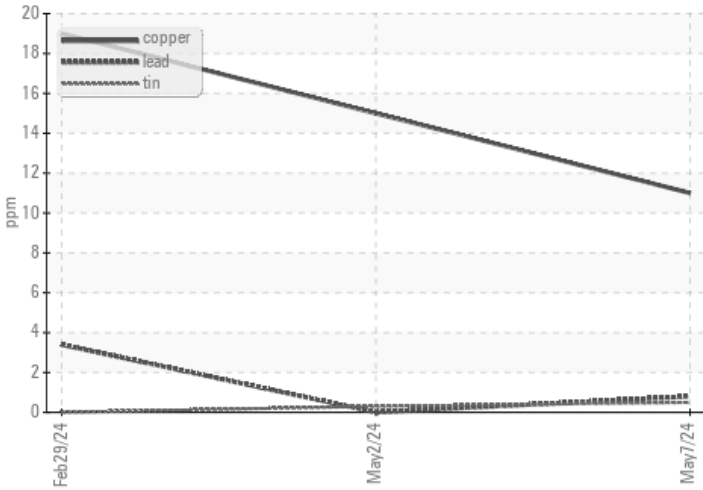


## GRAPHS

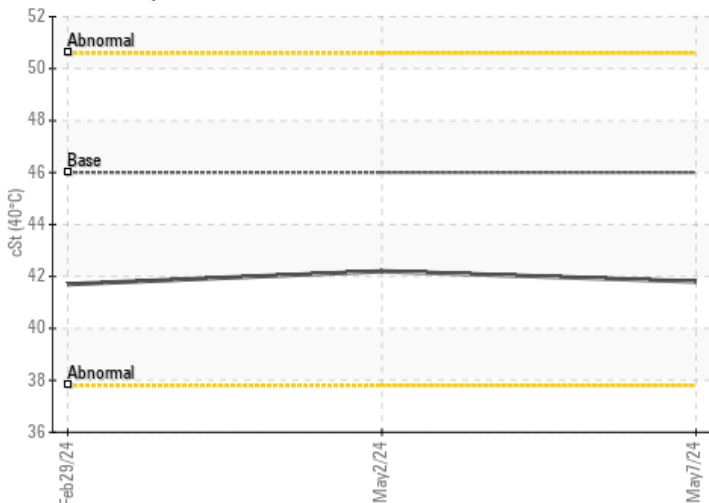
### Ferrous Alloys



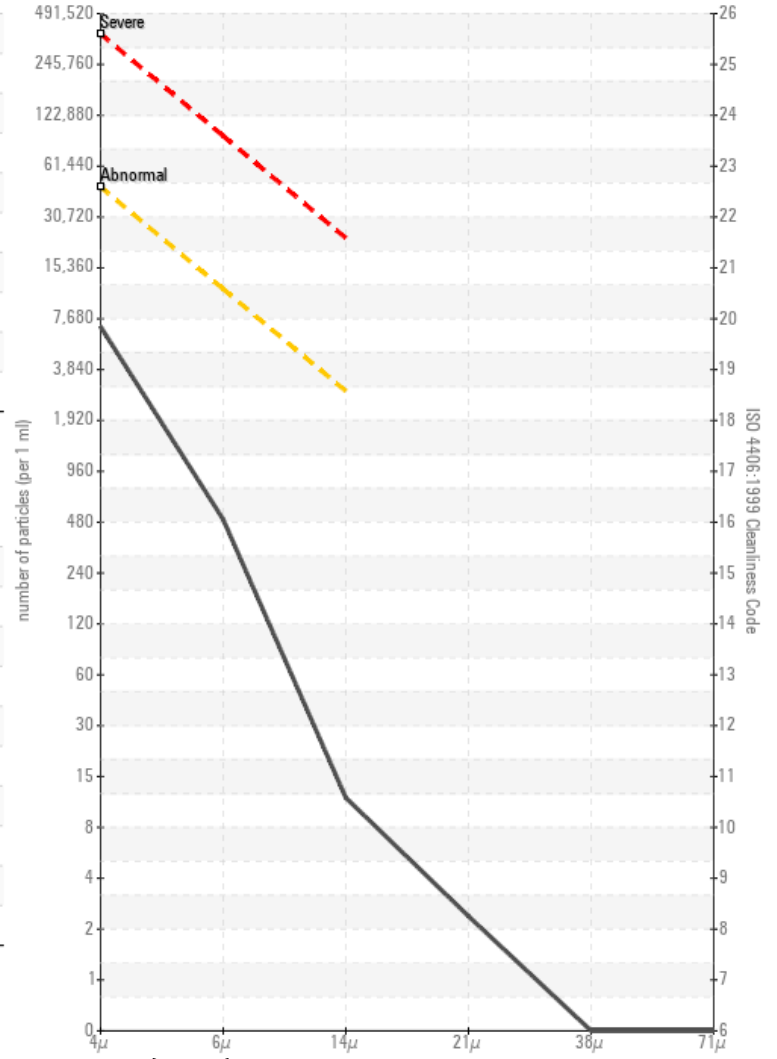
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

