



# CONSTRUCTION EQUIPMENT

## 14070 VOLVO L220H 3091 - HYDRAULIC SYSTEM



**Sample No:** VCP412044  
**Oil Type:** AW HYDRAULIC OIL ISO 46  
**Job No:** 14070



### SAMPLE INFORMATION

Sample Number	VCP412044	---	---	---
Sample Date	05 Jan 2024	---	---	---
Machine Hours	11633	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

**MORGAN LUMBER**  
 628 JEB STUART HWY  
 RED OAK, VA  
 US 23964  
 Contact: Service Manager

### OIL CONDITION

Visc @ 40°C	cSt	■ 39.6	---	---	---
Acid Number (AN)	mg KOH/g	■ 0.47	---	---	---

T:  
F:

### CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		▲ 13393	---	---	---
Particles >6µm		■ 239	---	---	---
Particles >14µm		■ 8	---	---	---
ISO 4406:1999 (c)		21/15/10	---	---	---
Silicon	ppm	■ 4	---	---	---
Sodium	ppm	■ 3	---	---	---
Potassium	ppm	■ 1	---	---	---

**Diagnosis**  
 No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 6 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	■ 18	---	---	---
Copper	ppm	■ 3	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	■ 1	---	---	---
Chromium	ppm	■ 3	---	---	---
Molybdenum	ppm	■ 0	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ 0	---	---	---
Vanadium	ppm	0	---	---	---

### ADDITIVES

Calcium	ppm	■ 50	---	---	---
Magnesium	ppm	■ 2	---	---	---
Zinc	ppm	■ 402	---	---	---
Phosphorus	ppm	■ 349	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 0	---	---	---

**Depot:** MORREDVA  
**Unique No:** 10833975  
**Signed:** Jonathan Hester  
**Report Date:** 19 Jan 2024

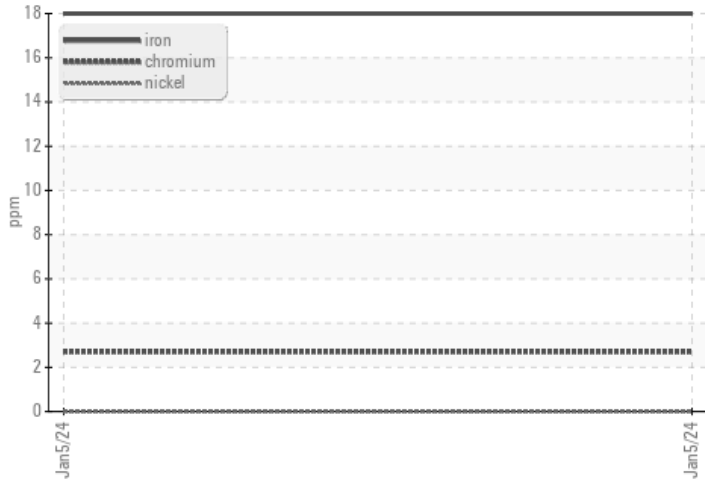


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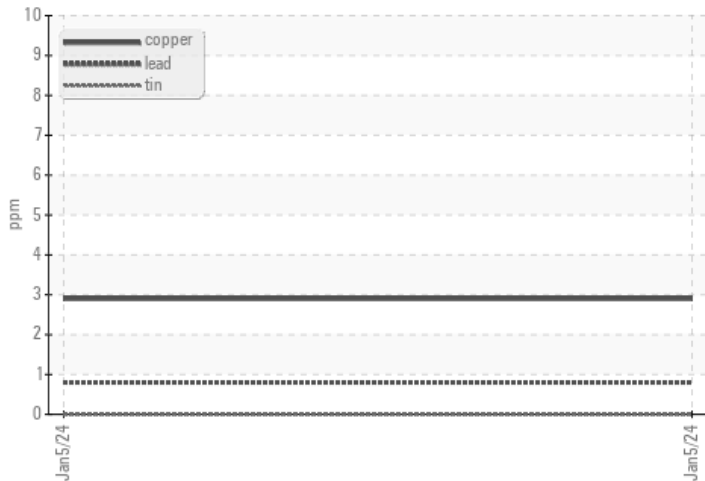


## GRAPHS

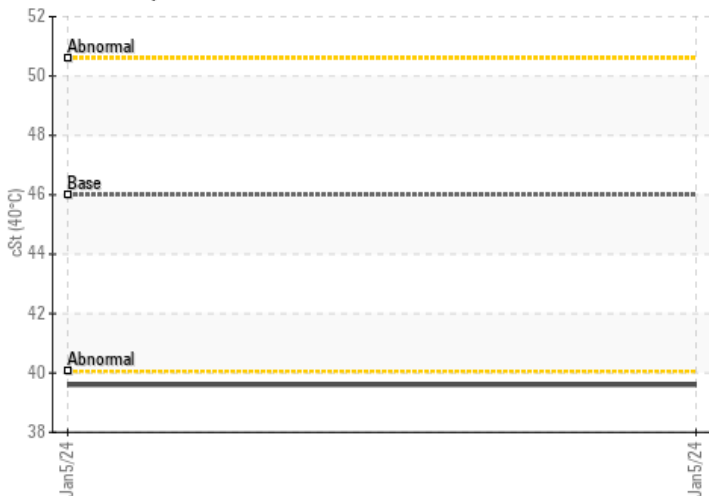
### Ferrous Alloys



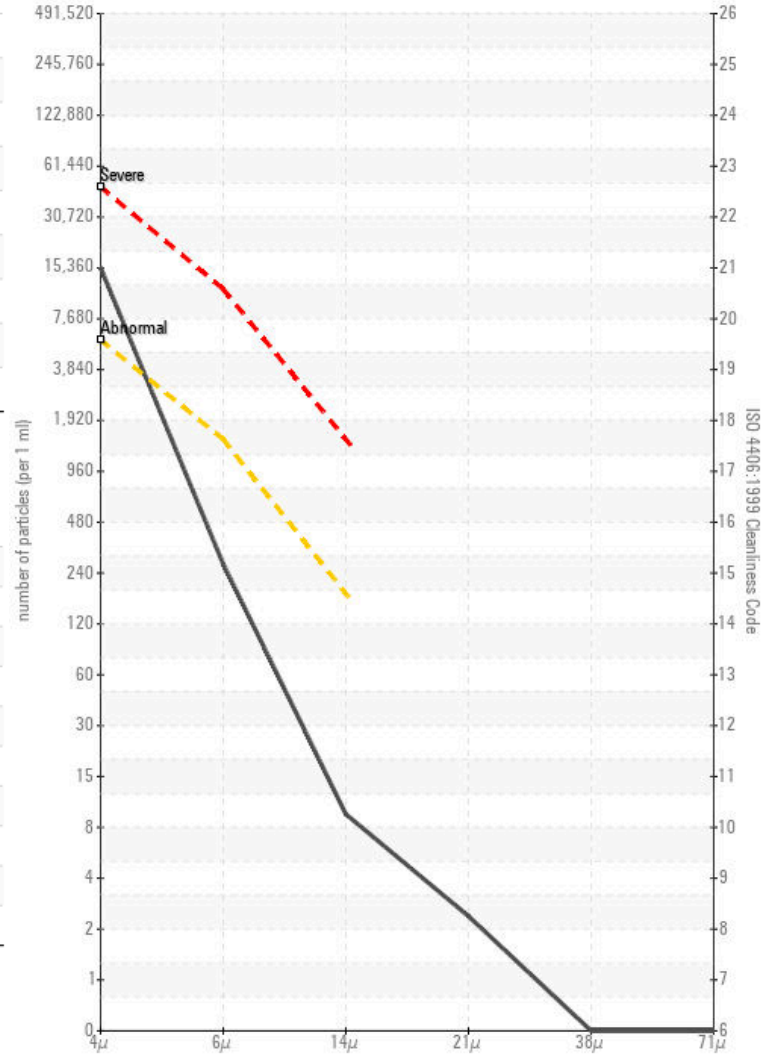
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

