



# CONSTRUCTION EQUIPMENT

## D12844 WE ENERGIES VOLVO L220H 3482 - HYDRAULIC SYSTEM



**Sample No:** VCP414086  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** D12844 WE ENERGIES



### SAMPLE INFORMATION

Sample Number	<b>VCP414086</b>	VCP418972	---	---
Sample Date	<b>27 Sep 2023</b>	28 Jul 2023	---	---
Machine Hours	<b>947</b>	582	---	---
Oil Hours	<b>947</b>	582	---	---
Oil Changed	<b>Not Chngd</b>	Not Chngd	---	---
Sample Status	<b>ABNORMAL</b>	ABNORMAL	---	---

ARING EQUIPMENT COMPANY INC - MAIN (MILWAUKEE)  
 13001 W SILVERE SPRING DR  
 BUTLER, WI  
 US 53007  
 Contact: GLENN OTTENBACHER  
 gottenbacher@aring.com  
 T: (262)282-0715  
 F: (262)781-5053



### OIL CONDITION

Visc @ 40°C	cSt	<b>42.4</b>	43.0	---	---
Acid Number (AN)	mg KOH/g	<b>0.34</b>	0.41	---	---



### CONTAMINATION

Particles >4µm		<b>7629</b>	32588	---	---
Particles >6µm		<b>1185</b>	12720	---	---
Particles >14µm		<b>127</b>	1881	---	---
ISO 4406:1999 (c)		<b>20/17/14</b>	22/21/18	---	---
Silicon	ppm	<b>1</b>	<1	---	---
Sodium	ppm	<b>0</b>	0	---	---
Potassium	ppm	<b>&lt;1</b>	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>2</b>	<1	---	---
Copper	ppm	<b>1</b>	<1	---	---
Lead	ppm	<b>&lt;1</b>	0	---	---
Tin	ppm	<b>0</b>	0	---	---
Aluminum	ppm	<b>0</b>	0	---	---
Chromium	ppm	<b>&lt;1</b>	0	---	---
Molybdenum	ppm	<b>&lt;1</b>	<1	---	---
Nickel	ppm	<b>0</b>	0	---	---
Titanium	ppm	<b>0</b>	0	---	---
Silver	ppm	<b>0</b>	0	---	---
Manganese	ppm	<b>0</b>	0	---	---
Vanadium	ppm	<b>0</b>	0	---	---



### ADDITIVES

Calcium	ppm	<b>56</b>	55	---	---
Magnesium	ppm	<b>&lt;1</b>	3	---	---
Zinc	ppm	<b>449</b>	436	---	---
Phosphorus	ppm	<b>329</b>	326	---	---
Barium	ppm	<b>0</b>	0	---	---
Boron	ppm	<b>0</b>	0	---	---

**Depot:** VOLVO0069  
**Unique No:** 10682265  
**Signed:** Wes Davis  
**Report Date:** 06 Oct 2023

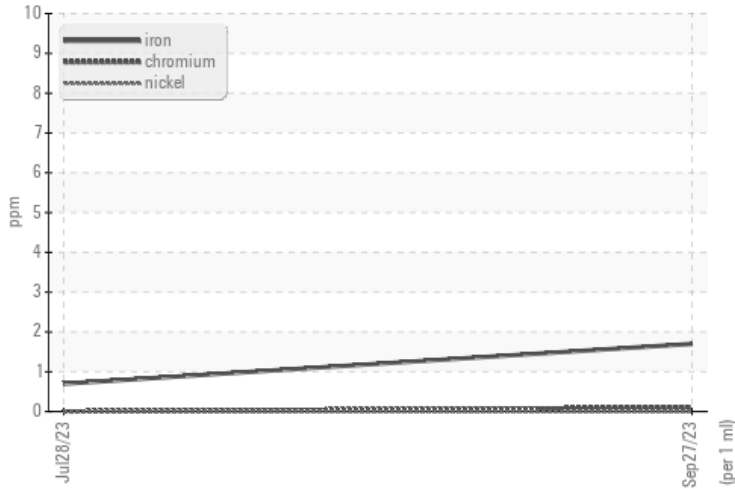


# CONSTRUCTION EQUIPMENT

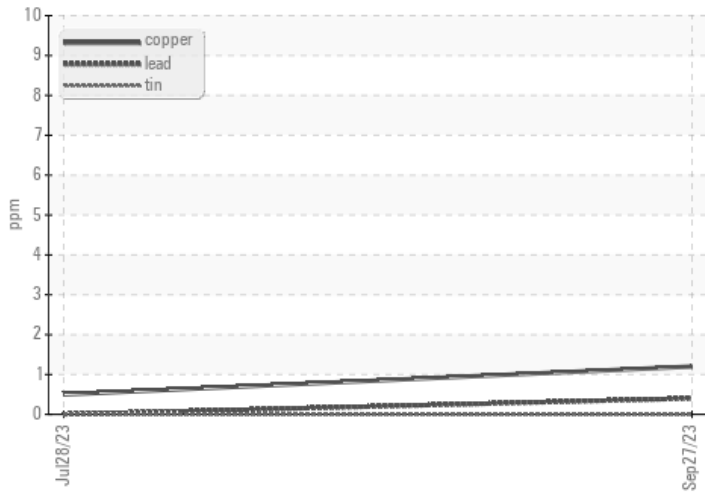


## GRAPHS

### Ferrous Alloys



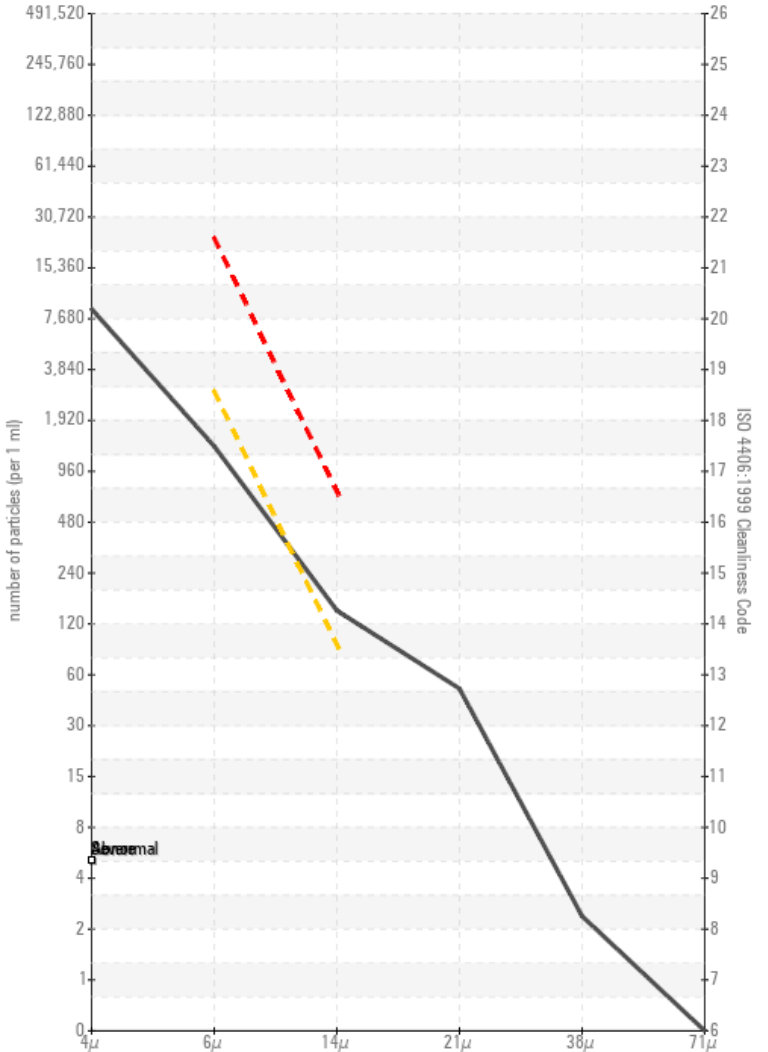
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

