



# CONSTRUCTION EQUIPMENT

## A11843 VOLVO L220H 2992 - HYDRAULIC SYSTEM



**Sample No:** VCP442537  
**Oil Type:** MOBIL HYDRAULIC OIL AW 46  
**Job No:** A11843



### SAMPLE INFORMATION

Sample Number	<b>VCP442537</b>	VCP416706	VCP421958	VCP342643
Sample Date	<b>08 Jan 2024</b>	10 Aug 2023	04 May 2023	30 Jan 2023
Machine Hours	<b>16170</b>	14860	13949	13050
Oil Hours	<b>4000</b>	1000	0	2000
Oil Changed	<b>Changed</b>	Not Changd	N/A	Not Changd
Sample Status	<b>ABNORMAL</b>	ABNORMAL	ABNORMAL	ABNORMAL

**WHEELABRATOR**  
 1201 NEW FORD MILL RD  
 MORRISVILLE, PA  
 US 19067  
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 fbolton@wtienergy.com  
 T: (215)428-7915  
 F:

### OIL CONDITION

Visc @ 40°C	cSt	<b>41.3</b>	41.4	41.3	41.6
Acid Number (AN)	mg KOH/g	<b>0.30</b>	0.30	0.34	0.35

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>20141</b>	10275	28010	40516
Particles >6µm		<b>575</b>	1070	5166	2838
Particles >14µm		<b>36</b>	90	604	212
ISO 4406:1999 (c)		<b>22/16/12</b>	21/17/14	22/20/16	23/19/15
Silicon	ppm	<b>2</b>	2	2	2
Sodium	ppm	<b>0</b>	2	6	0
Potassium	ppm	<b>1</b>	0	2	2

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

### ADDITIVES

Calcium	ppm	<b>67</b>	68	64	68
Magnesium	ppm	<b>2</b>	<1	3	<1
Zinc	ppm	<b>416</b>	420	448	439
Phosphorus	ppm	<b>376</b>	341	356	333
Barium	ppm	<b>1</b>	0	0	1
Boron	ppm	<b>0</b>	0	0	0

**Depot:** WHEMOR  
**Unique No:** 10836379  
**Signed:** Wes Davis  
**Report Date:** 22 Jan 2024

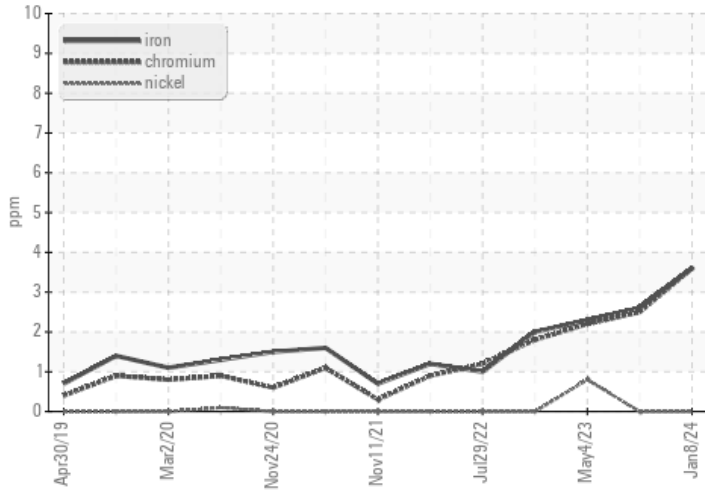


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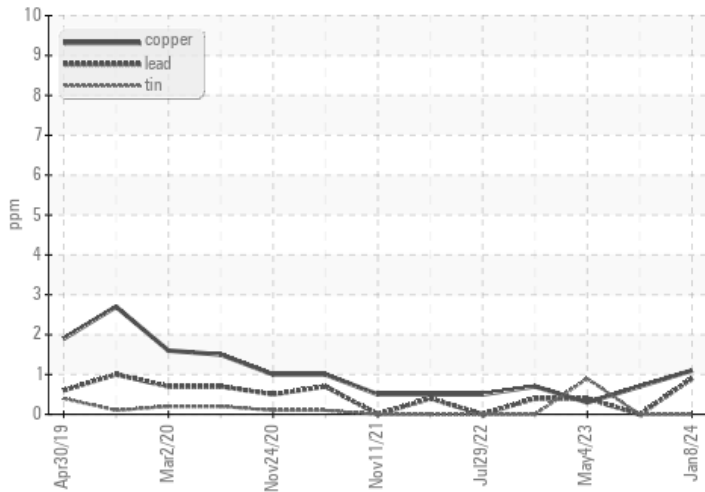


## GRAPHS

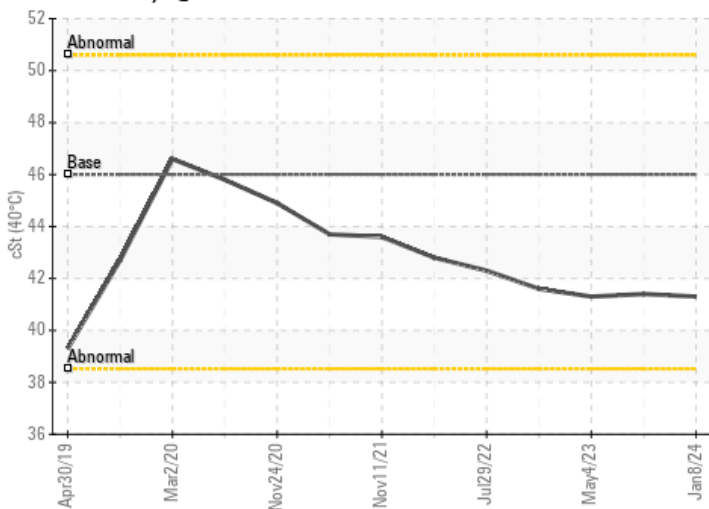
### Ferrous Alloys



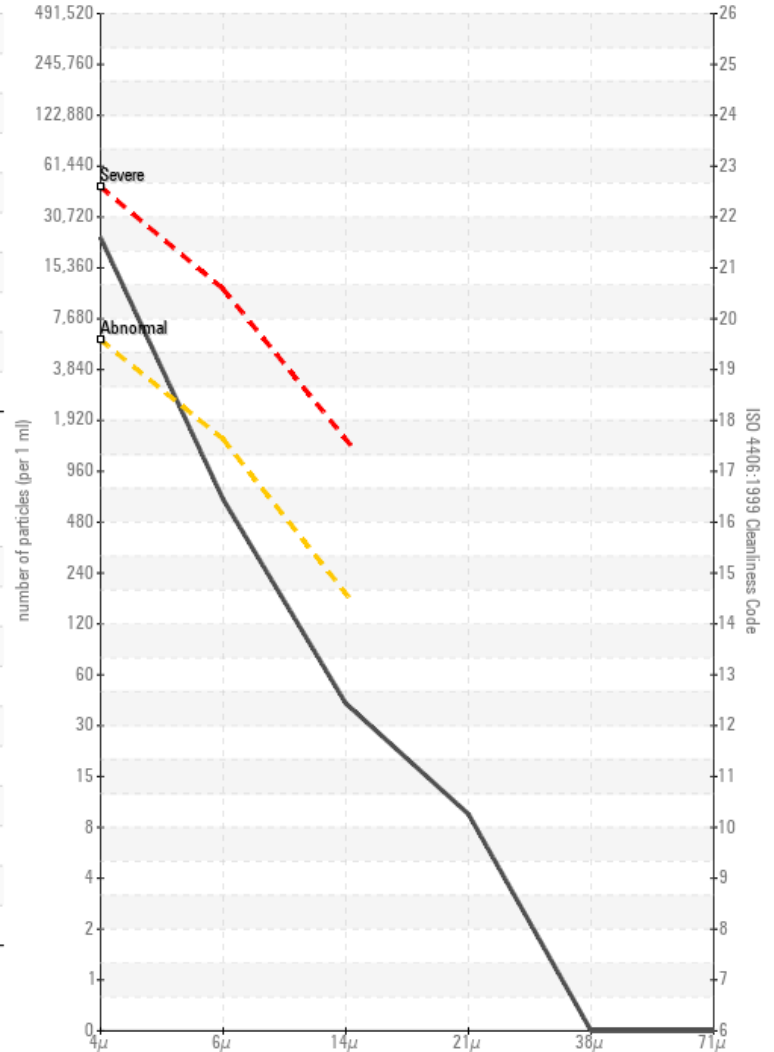
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

