



# CONSTRUCTION EQUIPMENT

## A10858 VOLVO L220H 2992 - HYDRAULIC SYSTEM



**Sample No:** VCP416706  
**Oil Type:** MOBIL HYDRAULIC OIL AW 46  
**Job No:** A10858



### SAMPLE INFORMATION

Sample Number	<b>VCP416706</b>	VCP421958	VCP342643	VCP374837
Sample Date	<b>10 Aug 2023</b>	04 May 2023	30 Jan 2023	29 Jul 2022
Machine Hours	<b>14860</b>	13949	13050	11390
Oil Hours	<b>1000</b>	0	2000	1000
Oil Changed	<b>Not Changd</b>	N/A	Not Changd	Not Changd
Sample Status	<b>ABNORMAL</b>	ABNORMAL	ABNORMAL	ABNORMAL

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

### OIL CONDITION

Visc @ 40°C	cSt	<b>41.4</b>	41.3	41.6	42.3
Acid Number (AN)	mg KOH/g	<b>0.30</b>	0.34	0.35	0.31

### CONTAMINATION

Particles >4µm		<b>10275</b>	28010	40516	17792
Particles >6µm		<b>1070</b>	5166	2838	2257
Particles >14µm		<b>90</b>	604	212	111
ISO 4406:1999 (c)		<b>21/17/14</b>	22/20/16	23/19/15	21/18/14
Silicon	ppm	<b>2</b>	2	2	2
Sodium	ppm	<b>2</b>	6	0	2
Potassium	ppm	<b>0</b>	2	2	0

**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 < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

### WEAR METALS

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

### ADDITIVES

Calcium	ppm	<b>68</b>	64	68	64
Magnesium	ppm	<b>&lt;1</b>	3	<1	0
Zinc	ppm	<b>420</b>	448	439	420
Phosphorus	ppm	<b>341</b>	356	333	331
Barium	ppm	<b>0</b>	0	1	2
Boron	ppm	<b>0</b>	0	0	0

**Depot:** WHEMOR  
**Unique No:** 10617996  
**Signed:** Angela Borella  
**Report Date:** 25 Aug 2023

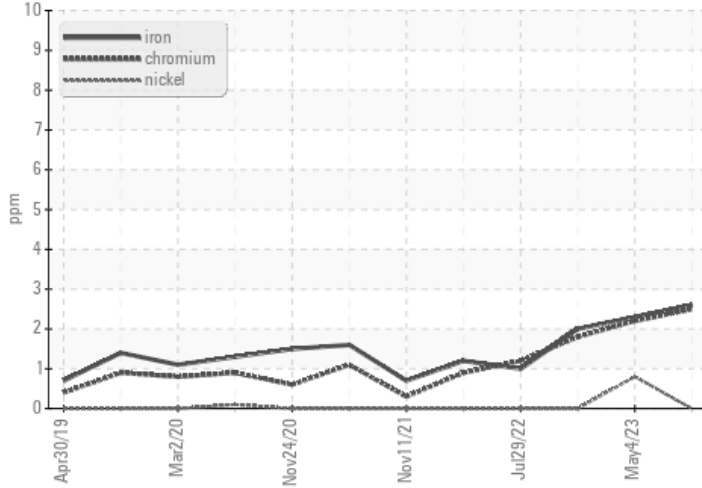


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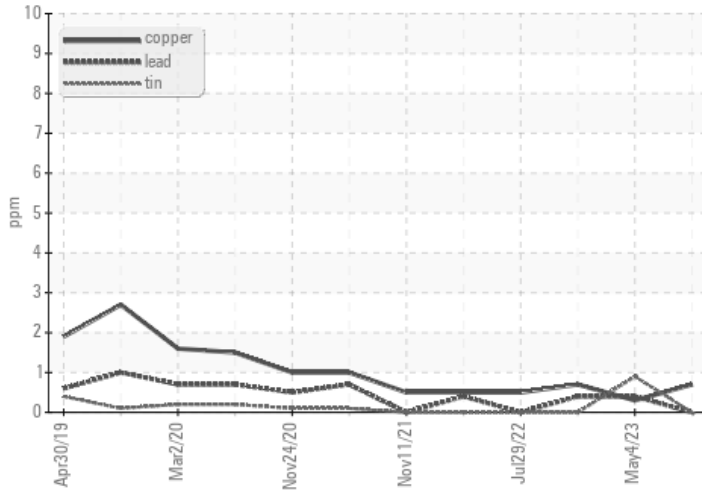


## GRAPHS

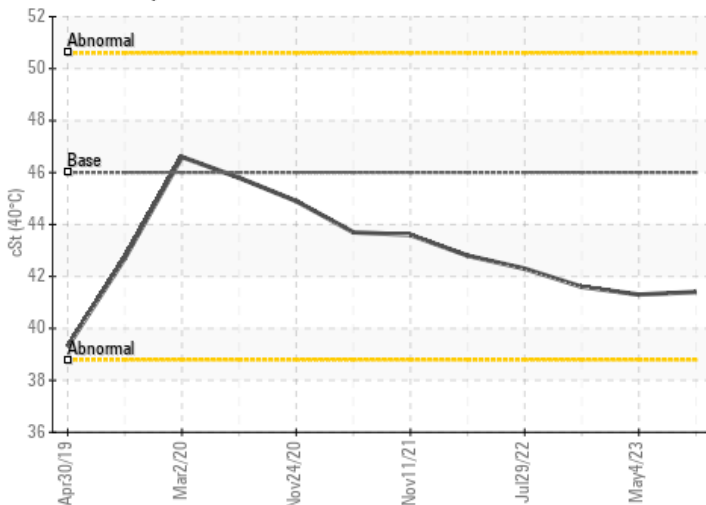
### Ferrous Alloys



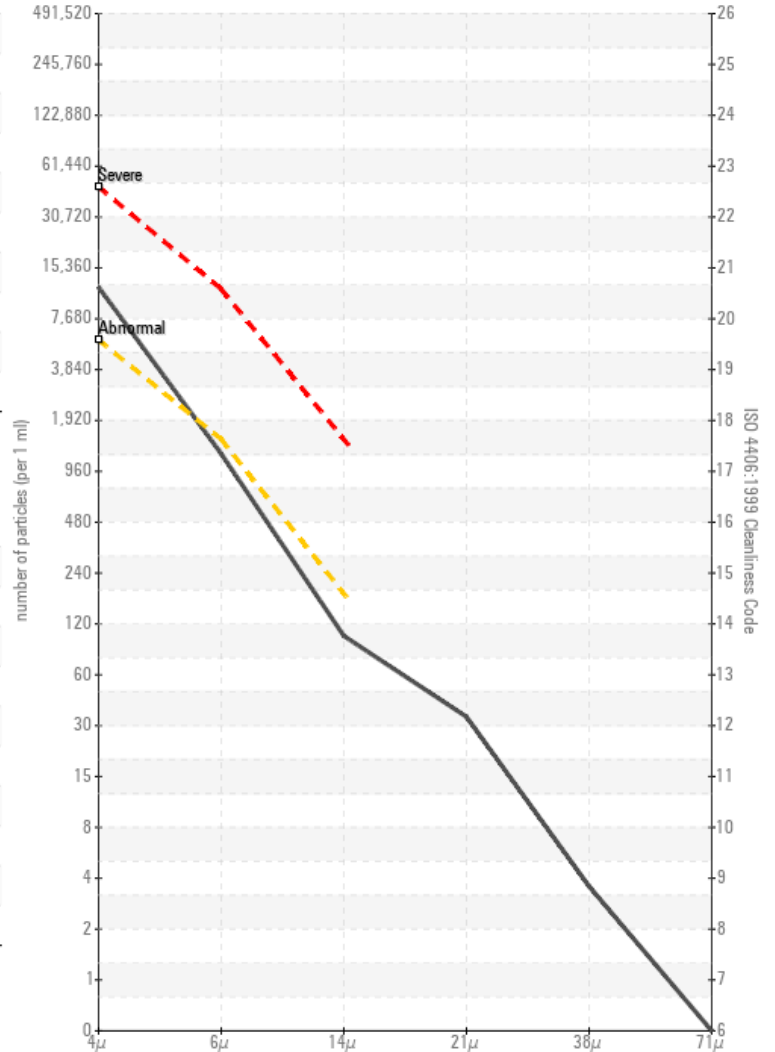
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

