



# CONSTRUCTION EQUIPMENT

## W14606 VOLVO L220H 2893 - HYDRAULIC SYSTEM



**Sample No:** VCP404657  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** W14606



### SAMPLE INFORMATION

Sample Number	<b>VCP404657</b>	VCP405881	VCP370683	VCP354844
Sample Date	<b>24 Aug 2023</b>	15 Jun 2023	16 Nov 2022	07 Jul 2022
Machine Hours	<b>7499</b>	7098	6485	6008
Oil Hours	<b>0</b>	1000	500	1000
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Not Chngd
Sample Status	<b>ATTENTION</b>	ABNORMAL	ABNORMAL	ABNORMAL

**HOUSBY HEAVY EQUIPMENT, LLC**  
 4410 SE 4 MILE DR  
 ANKENY, IA  
 US 50021  
 Contact: RANDY VANDERLEEST  
 rvanderleest@housby.com  
 T:  
 F: (515)964-2865

### OIL CONDITION

Visc @ 40°C	cSt	<b>39.7</b>	40.0	40.3	40.2
Acid Number (AN)	mg KOH/g	<b>0.34</b>	0.35	0.34	0.36

### CONTAMINATION

Particles >4µm	<b>5409</b>	11242	16803	22201	
Particles >6µm	<b>673</b>	2196	1508	5960	
Particles >14µm	<b>53</b>	174	85	299	
ISO 4406:1999 (c)	<b>20/17/13</b>	21/18/15	21/18/14	22/20/15	
Silicon	ppm	<b>3</b>	2	2	2
Sodium	ppm	<b>0</b>	2	<1	2
Potassium	ppm	<b>&lt;1</b>	<1	0	0

### Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a light 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 suitable for further service.

### WEAR METALS

Iron	ppm	<b>6</b>	5	4	4
Copper	ppm	<b>3</b>	2	2	2
Lead	ppm	<b>&lt;1</b>	1	<1	<1
Tin	ppm	<b>0</b>	0	0	0
Aluminum	ppm	<b>0</b>	<1	<1	<1
Chromium	ppm	<b>3</b>	3	2	2
Molybdenum	ppm	<b>1</b>	1	<1	<1
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	0	0
Vanadium	ppm	<b>0</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>104</b>	102	101	103
Magnesium	ppm	<b>18</b>	18	17	18
Zinc	ppm	<b>462</b>	487	445	449
Phosphorus	ppm	<b>357</b>	376	358	363
Barium	ppm	<b>2</b>	0	0	0
Boron	ppm	<b>0</b>	0	0	5

**Depot:** VOLVO0080  
**Unique No:** 10632710  
**Signed:** Wes Davis  
**Report Date:** 06 Sep 2023

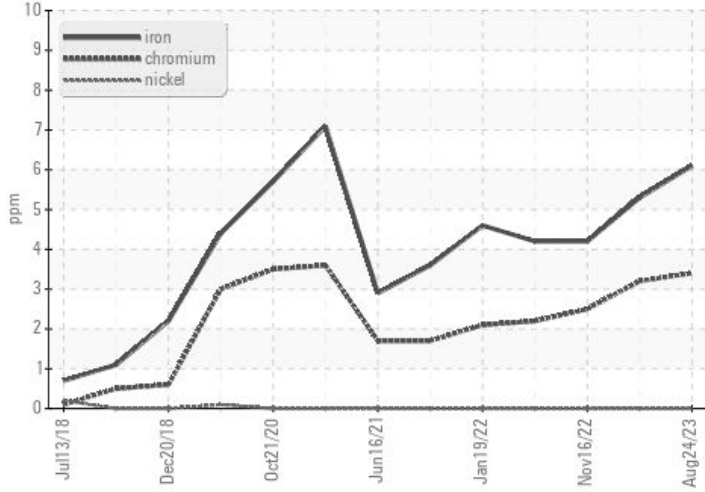


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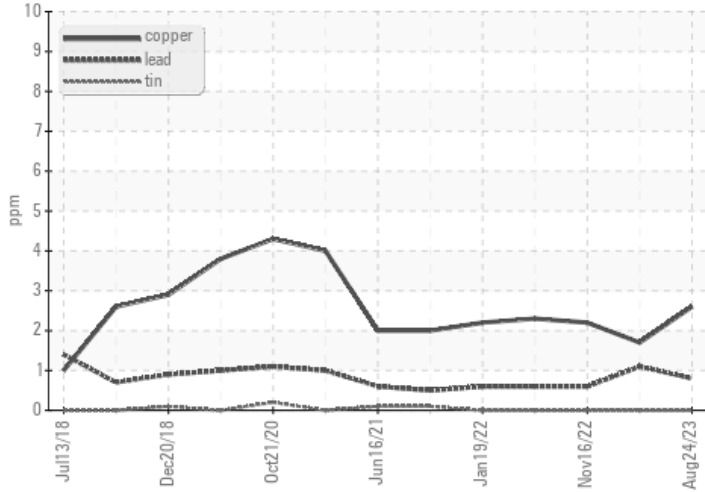


## GRAPHS

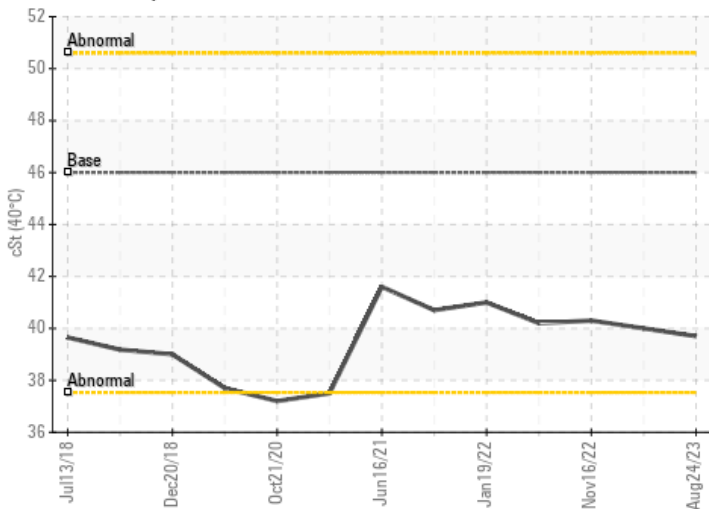
### Ferrous Alloys



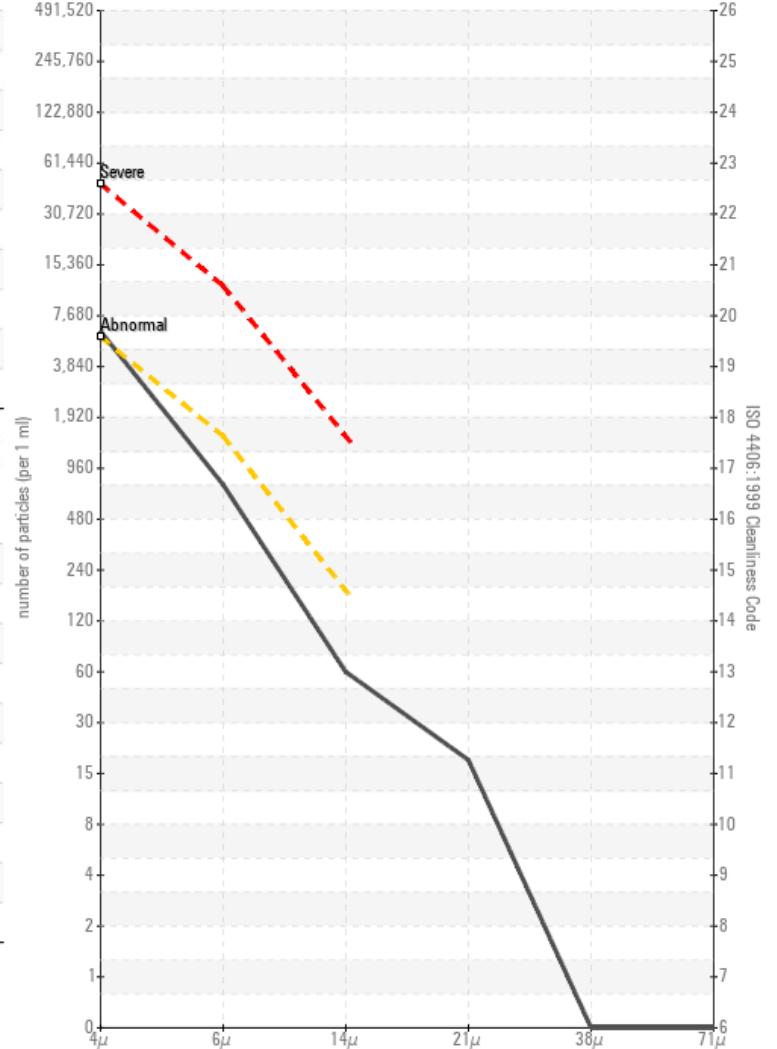
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

