



# CONSTRUCTION EQUIPMENT

## SWA329757-20 VOLVO L220H 2823 - HYDRAULIC SYSTEM



**Sample No:** VCP417803  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** SWA329757-20



### SAMPLE INFORMATION

Sample Number	<b>VCP417803</b>	VCP364971	VCP331224	VCP306375
Sample Date	<b>09 Sep 2023</b>	16 Sep 2022	22 Feb 2022	05 Aug 2021
Machine Hours	<b>9460</b>	7531	6156	5330
Oil Hours	<b>0</b>	0	0	1500
Oil Changed	<b>Not Changd</b>	Not Changd	N/A	Not Changd
Sample Status	<b>ABNORMAL</b>	ABNORMAL	ABNORMAL	ATTENTION

**CALLANAN**  
 RT 32 677 FLATBUSH RD  
 EAST KINGSTON, NY  
 US 12401  
 Contact:

### OIL CONDITION

Visc @ 40°C	cSt	<b>39.5</b>	39.6	39.7	40.3
Acid Number (AN)	mg KOH/g	<b>0.46</b>	0.49	0.39	0.342

T:  
F:

### CONTAMINATION

Particles >4µm		<b>22128</b>	48084	100840	35182
Particles >6µm		<b>3111</b>	1687	16298	2338
Particles >14µm		<b>178</b>	178	500	150
ISO 4406:1999 (c)		<b>22/19/15</b>	23/18/15	24/21/16	22/18/14
Silicon	ppm	<b>11</b>	6	6	5
Sodium	ppm	<b>2</b>	1	2	1
Potassium	ppm	<b>&lt;1</b>	0	0	0

### Diagnosis

We recommend you service the filters on this component. 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>17</b>	13	9	6
Copper	ppm	<b>2</b>	3	3	3
Lead	ppm	<b>0</b>	<1	<1	<1
Tin	ppm	<b>0</b>	<1	<1	0
Aluminum	ppm	<b>2</b>	3	2	1
Chromium	ppm	<b>2</b>	2	2	1
Molybdenum	ppm	<b>0</b>	<1	<1	0
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	0	<1	0
Silver	ppm	<b>0</b>	0	<1	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	0
Vanadium	ppm	<b>0</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>463</b>	394	442	386
Magnesium	ppm	<b>10</b>	1	2	<1
Zinc	ppm	<b>553</b>	513	545	508
Phosphorus	ppm	<b>334</b>	415	472	384
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>12</b>	11	13	27

**Depot:** CALEAS  
**Unique No:** 10655163  
**Signed:** Wes Davis  
**Report Date:** 20 Sep 2023

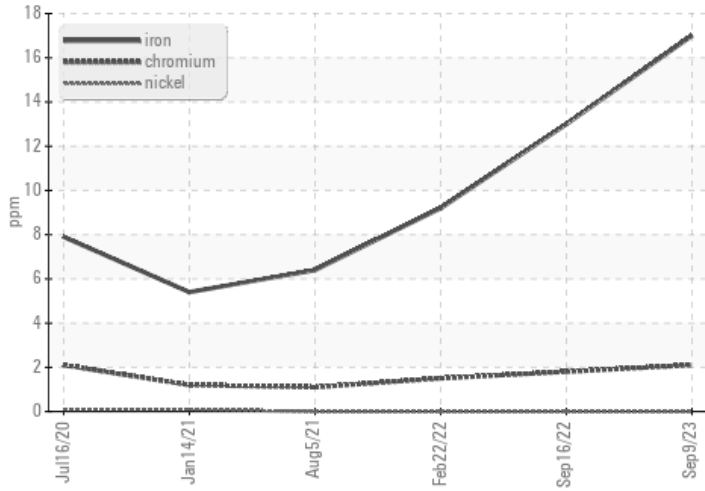


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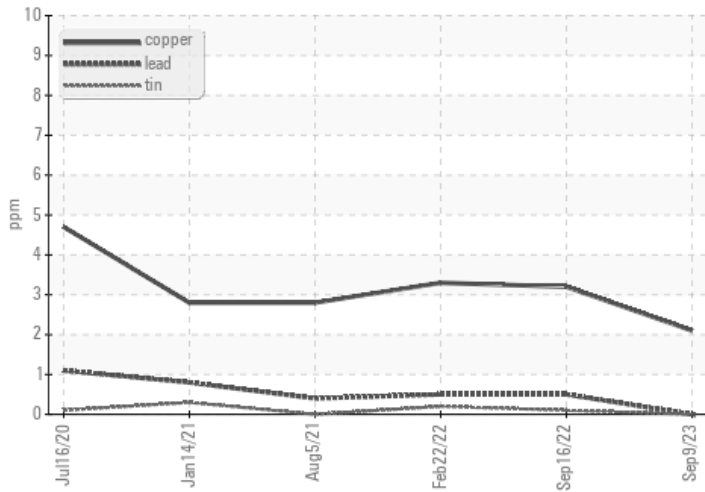


## VOLVO GRAPHS

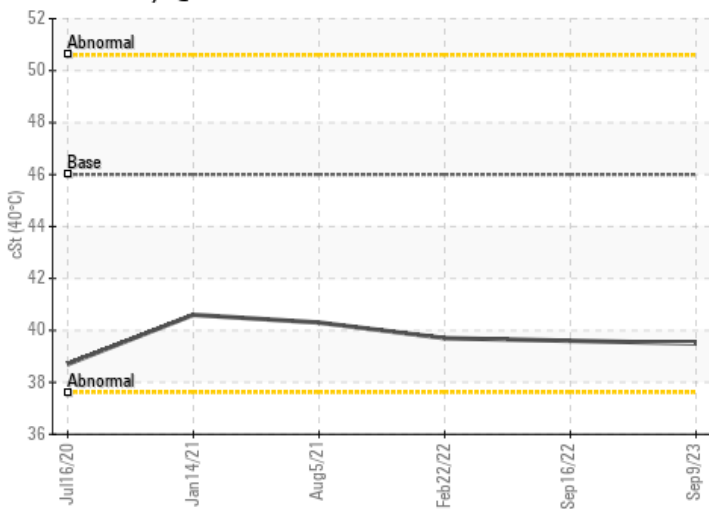
### Ferrous Alloys



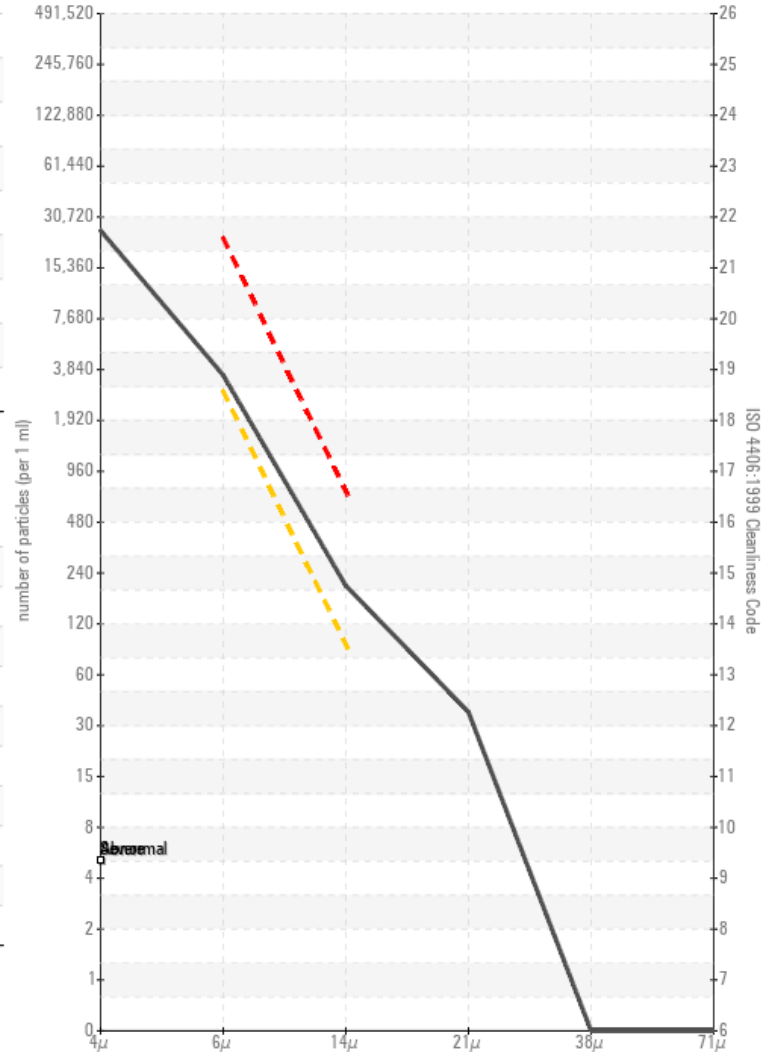
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

