



# CONSTRUCTION EQUIPMENT

## SWA350376-20 VOLVO L220H 2933 - HYDRAULIC SYSTEM



**Sample No:** VCP424084  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** SWA350376-20



### SAMPLE INFORMATION

Sample Number	<b>VCP424084</b>	VCP364970	VCP359949	VCP323033
Sample Date	<b>07 Sep 2023</b>	26 Aug 2022	15 Apr 2022	07 Oct 2021
Machine Hours	<b>9700</b>	4665	4205	3532
Oil Hours	<b>0</b>	0	500	1500
Oil Changed	<b>Not Changd</b>	Not Changd	Changed	Not Changd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**DENALI WE CARE**  
 400 TORNE RD  
 HILLBURN, NY  
 US 10931  
 Contact: Service Manager

### OIL CONDITION

Visc @ 40°C	cSt	<b>40.9</b>	41.7	38.9	39.6
Acid Number (AN)	mg KOH/g	<b>0.22</b>	0.32	0.33	0.325

T:  
F:

### CONTAMINATION

Particles >4µm	<b>1652</b>	2479	7129	6496	
Particles >6µm	<b>332</b>	588	555	458	
Particles >14µm	<b>21</b>	58	44	31	
ISO 4406:1999 (c)	<b>18/16/12</b>	18/16/13	20/16/13	20/16/12	
Silicon	ppm	<b>2</b>	<1	2	<1
Sodium	ppm	<b>1</b>	0	0	1
Potassium	ppm	<b>0</b>	1	2	0

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

### WEAR METALS

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

### ADDITIVES

Calcium	ppm	<b>87</b>	84	133	124
Magnesium	ppm	<b>2</b>	<1	2	0
Zinc	ppm	<b>435</b>	447	448	430
Phosphorus	ppm	<b>234</b>	337	337	320
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	<1	3	3

**Depot:** DENHIL  
**Unique No:** 10655149  
**Signed:** Wes Davis  
**Report Date:** 20 Sep 2023

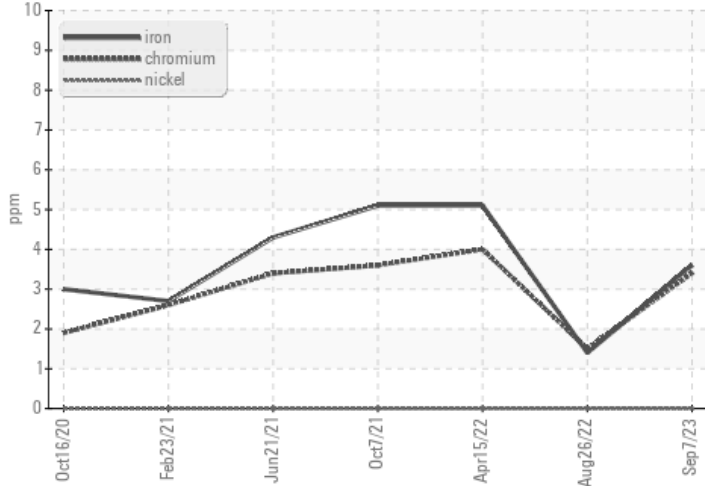


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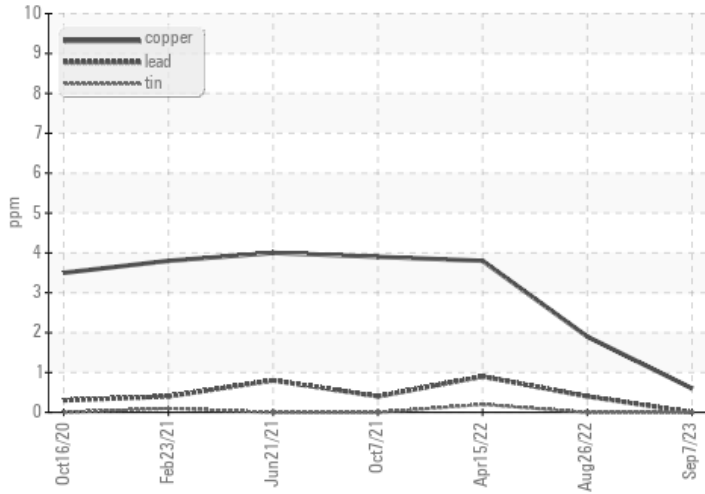


## GRAPHS

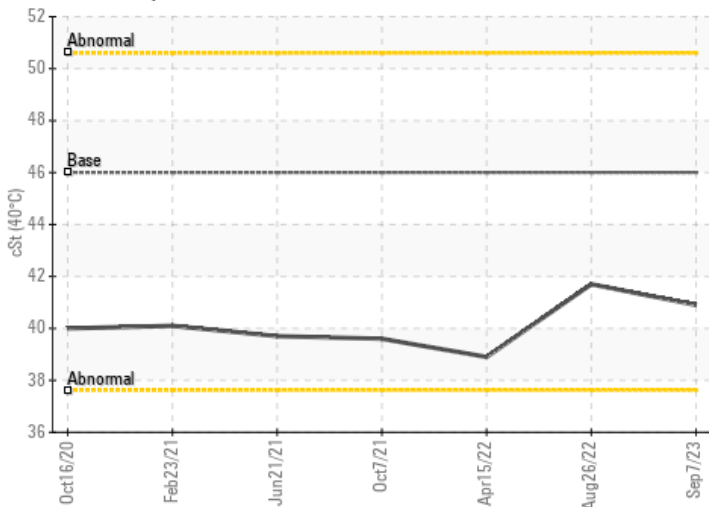
### Ferrous Alloys



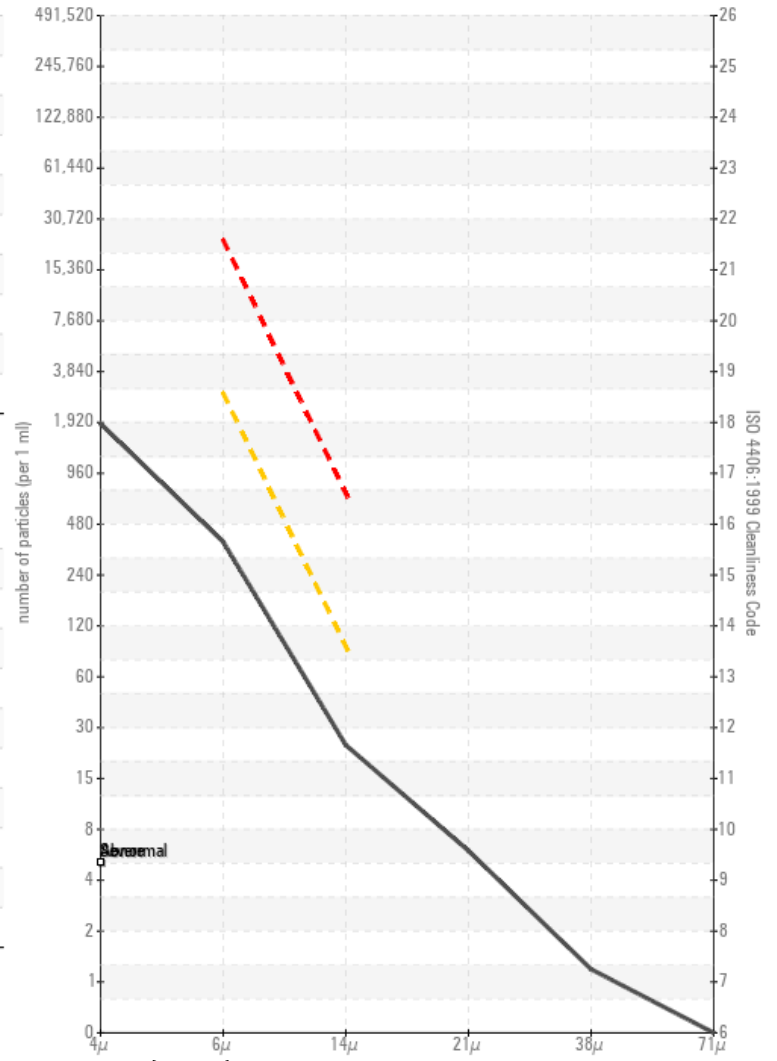
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

