



# CONSTRUCTION EQUIPMENT

## SWA319806 VOLVO L180H 3738 - HYDRAULIC SYSTEM



**Sample No:** VCP370459  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** SWA319806



### SAMPLE INFORMATION

Sample Number	<b>VCP370459</b>	VCP400535	VCP310185	VCP311533
Sample Date	<b>02 Aug 2023</b>	05 Apr 2023	20 Aug 2021	14 May 2021
Machine Hours	<b>5583</b>	4945	3471	3023
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Changd</b>	Not Changd	N/A	Not Changd
Sample Status	<b>ATTENTION</b>	ABNORMAL	ABNORMAL	ATTENTION

### ALTA EQUIPMENT

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### OIL CONDITION

Visc @ 40°C	cSt	<b>▲ 36.8</b>	▲ 37.1	▲ 37.7	▲ 37.9
Acid Number (AN)	mg KOH/g	<b>■ 0.34</b>	■ 0.35	■ 0.326	■ 0.421



### CONTAMINATION

Particles >4µm	<b>▲ 8166</b>	▲ 48650	▲ 17158	▲ 5049	
Particles >6µm	<b>▲ 1305</b>	▲ 6245	▲ 1923	■ 783	
Particles >14µm	<b>■ 71</b>	▲ 244	■ 85	■ 36	
ISO 4406:1999 (c)	<b>20/18/13</b>	23/20/15	21/18/14	20/17/12	
Silicon	ppm	<b>■ 8</b>	■ 7	■ 4	■ 3
Sodium	ppm	<b>■ 2</b>	■ 2	■ <1	■ <1
Potassium	ppm	<b>■ &lt;1</b>	■ 1	■ <1	■ <1

### 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 moderate amount of silt (particulates < 14 microns in size) present in the oil. The oil viscosity is lower than normal. The AN level is acceptable for this fluid.



### WEAR METALS

Iron	ppm	<b>■ 11</b>	■ 11	■ 6	■ 5
Copper	ppm	<b>■ 6</b>	■ 6	■ 5	■ 5
Lead	ppm	<b>■ 1</b>	■ 0	■ 2	■ 2
Tin	ppm	<b>■ 0</b>	■ 0	■ <1	■ <1
Aluminum	ppm	<b>■ 6</b>	■ 4	■ 6	■ 0
Chromium	ppm	<b>■ 1</b>	■ 1	■ 1	■ 1
Molybdenum	ppm	<b>■ 0</b>	■ 0	■ 0	■ <1
Nickel	ppm	<b>■ 0</b>	■ 0	■ 0	■ <1
Titanium	ppm	<b>&lt;1</b>	0	0	<1
Silver	ppm	<b>0</b>	0	<1	<1
Manganese	ppm	<b>■ &lt;1</b>	■ <1	■ <1	■ <1
Vanadium	ppm	<b>&lt;1</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>■ 40</b>	■ 41	■ 44	■ 62
Magnesium	ppm	<b>■ 0</b>	■ 1	■ <1	■ 6
Zinc	ppm	<b>■ 404</b>	■ 424	■ 450	■ 434
Phosphorus	ppm	<b>■ 331</b>	■ 331	■ 342	■ 322
Barium	ppm	<b>■ 0</b>	■ 0	■ 0	■ 0
Boron	ppm	<b>■ 0</b>	■ 0	■ 2	■ 1

**Depot:** VOLV00142  
**Unique No:** 10602749  
**Signed:** Don Baldrige  
**Report Date:** 14 Aug 2023

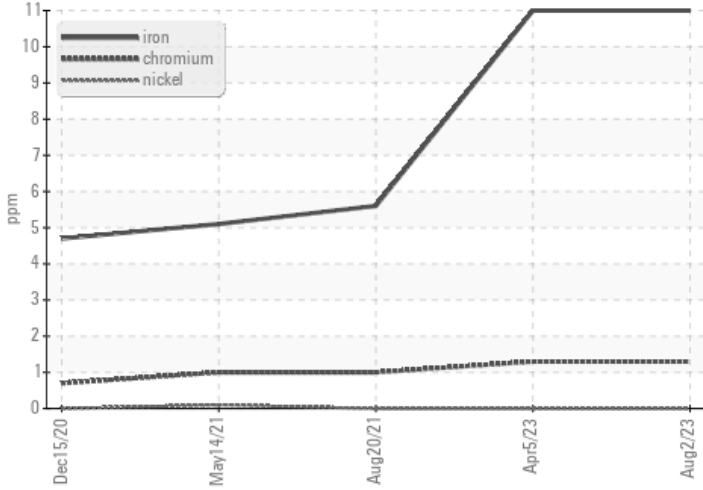


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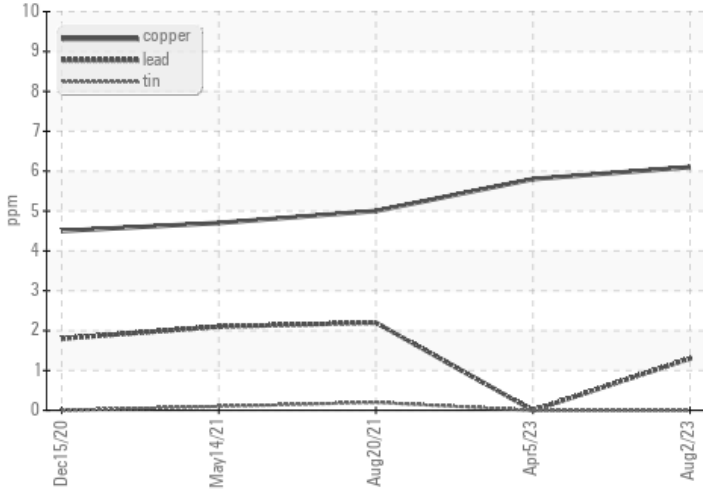


## GRAPHS

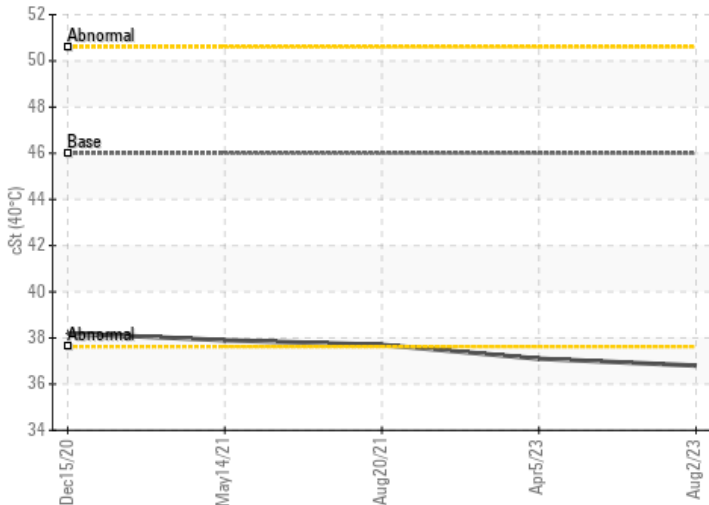
### Ferrous Alloys



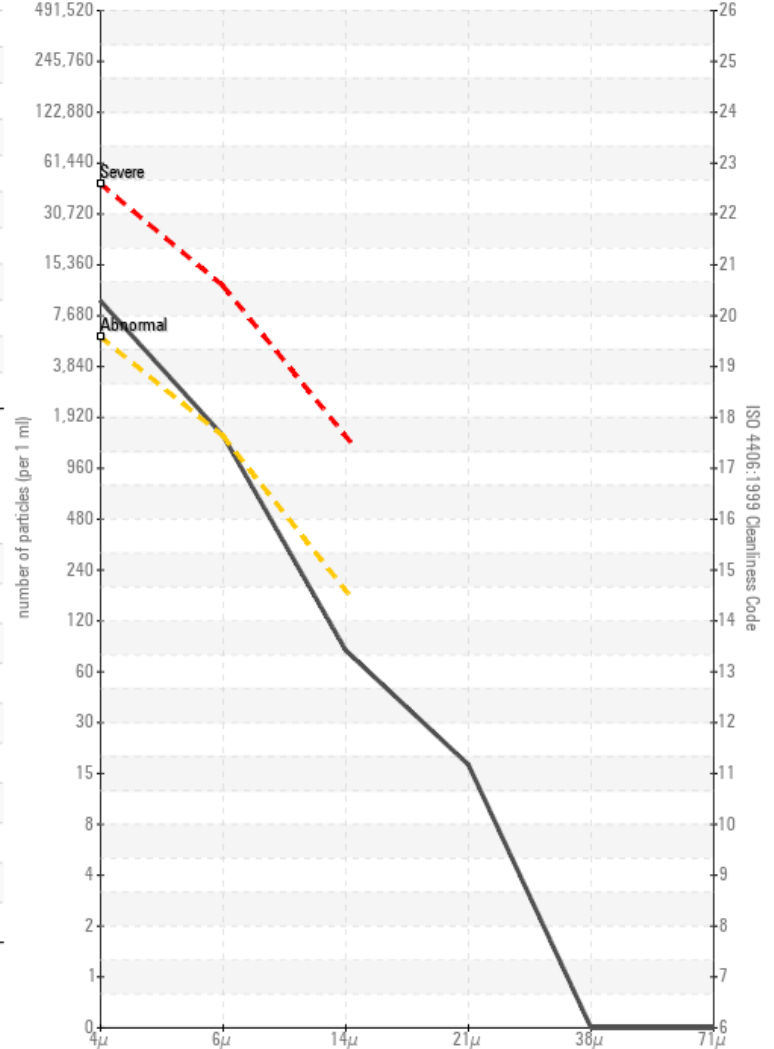
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

