



# CONSTRUCTION EQUIPMENT

## RA42 VOLVO L180H 5363 - HYDRAULIC SYSTEM



**Sample No:** VCP380523  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** RA42



### SAMPLE INFORMATION

Sample Number	<b>VCP380523</b>	VCP410531	VCP406596	VCP380814
Sample Date	<b>09 Nov 2023</b>	17 Aug 2023	01 Jun 2023	08 Mar 2023
Machine Hours	<b>4530</b>	4010	3537	3023
Oil Hours	<b>500</b>	4000	500	1000
Oil Changed	<b>Not Changd</b>	Changed	Not Changd	Not Changd
Sample Status	<b>ATTENTION</b>	ATTENTION	ABNORMAL	NORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>43.6</b>	42.2	42.0	40.1
Acid Number (AN)	mg KOH/g	<b>0.31</b>	0.30	0.32	0.32



### CONTAMINATION

Particles >4µm	<b>4979</b>	4891	9620	4284	
Particles >6µm	<b>1319</b>	1724	2502	1270	
Particles >14µm	<b>70</b>	163	148	66	
ISO 4406:1999 (c)	<b>19/18/13</b>	19/18/15	20/19/14	19/17/13	
Silicon	ppm	<b>2</b>	4	2	2
Sodium	ppm	<b>1</b>	3	<1	<1
Potassium	ppm	<b>&lt;1</b>	<1	<1	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>1</b>	3	2	0
Copper	ppm	<b>4</b>	8	6	8
Lead	ppm	<b>0</b>	2	<1	<1
Tin	ppm	<b>0</b>	<1	0	0
Aluminum	ppm	<b>0</b>	<1	0	<1
Chromium	ppm	<b>&lt;1</b>	1	<1	<1
Molybdenum	ppm	<b>&lt;1</b>	0	0	0
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	0	0	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	0	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	<1



### ADDITIVES

Calcium	ppm	<b>90</b>	43	60	40
Magnesium	ppm	<b>14</b>	0	<1	1
Zinc	ppm	<b>484</b>	434	440	353
Phosphorus	ppm	<b>379</b>	328	345	296
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>&lt;1</b>	0	0	0

**Depot:** VOLVO0080  
**Unique No:** 10742035  
**Signed:** Wes Davis  
**Report Date:** 16 Nov 2023

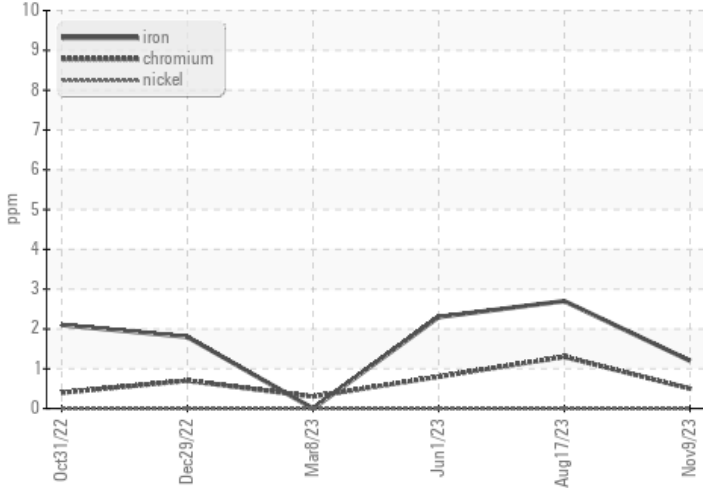


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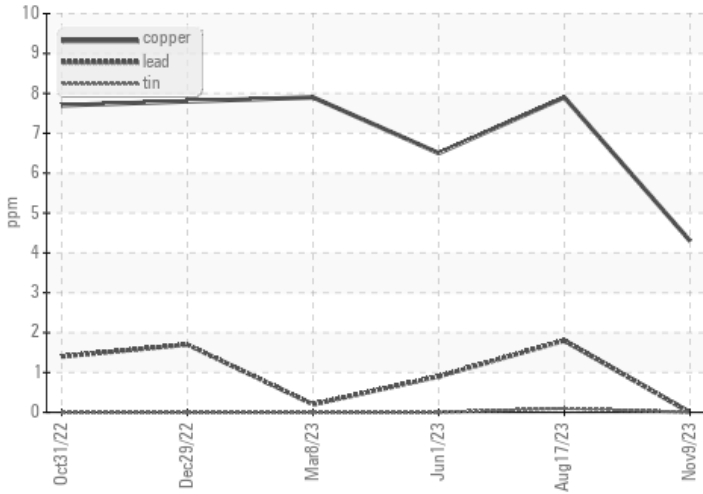


## VOLVO GRAPHS

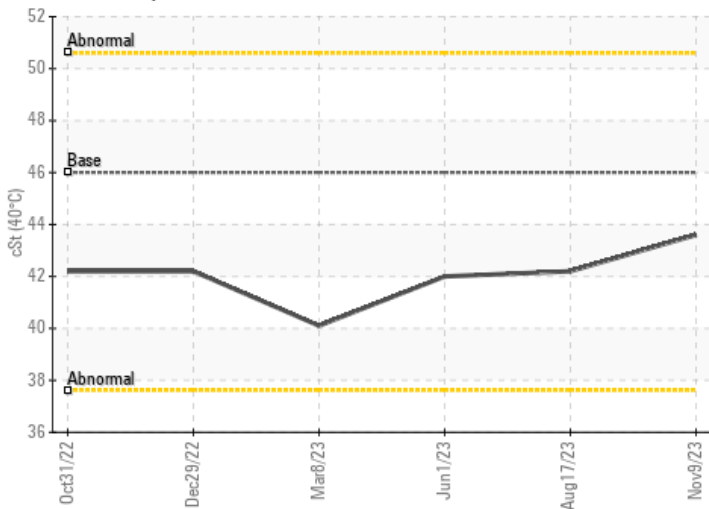
### Ferrous Alloys



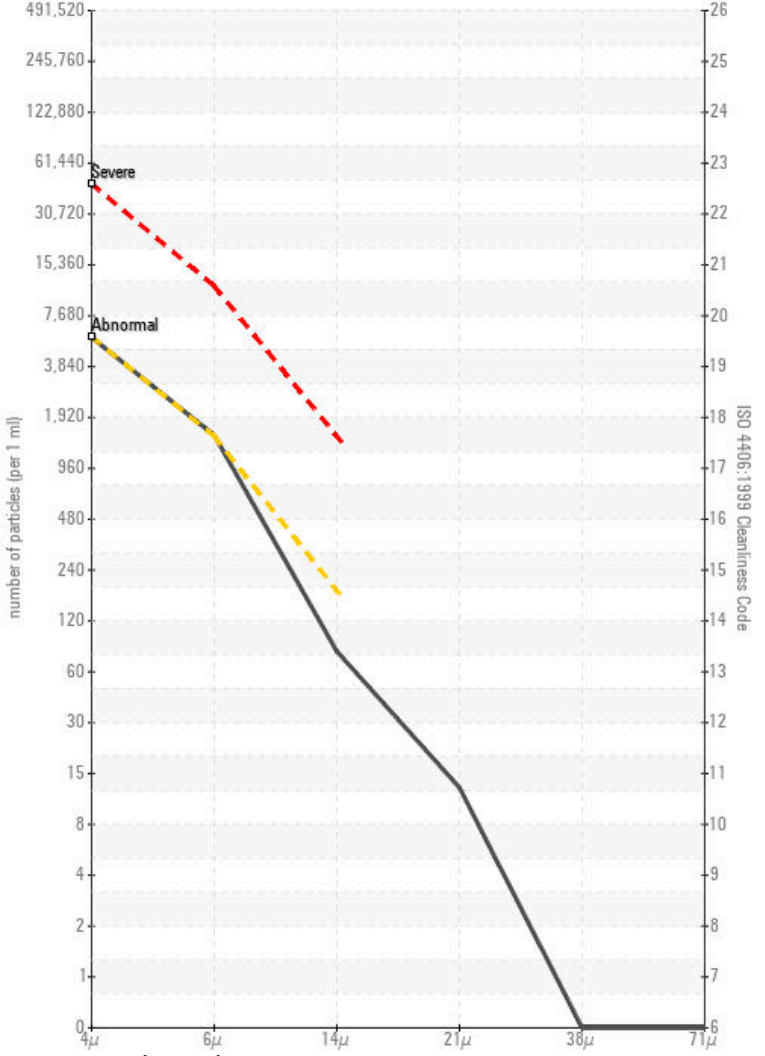
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

