



# CONSTRUCTION EQUIPMENT

## W14566 VOLVO L180H 5363 - HYDRAULIC SYSTEM



**Sample No:** VCP410531  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** W14566



### SAMPLE INFORMATION

Sample Number	<b>VCP410531</b>	VCP406596	VCP380814	VCP379535
Sample Date	<b>17 Aug 2023</b>	01 Jun 2023	08 Mar 2023	29 Dec 2022
Machine Hours	<b>4010</b>	3537	3023	2660
Oil Hours	<b>4000</b>	500	1000	500
Oil Changed	<b>Changed</b>	Not Changd	Not Changd	Not Changd
Sample Status	<b>ATTENTION</b>	ABNORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>42.2</b>	42.0	40.1	42.2
Acid Number (AN)	mg KOH/g	<b>0.30</b>	0.32	0.32	0.36

### CONTAMINATION

Particles >4µm		<b>4891</b>	9620	4284	1373
Particles >6µm		<b>1724</b>	2502	1270	349
Particles >14µm		<b>163</b>	148	66	15
ISO 4406:1999 (c)		<b>19/18/15</b>	20/19/14	19/17/13	18/16/11
Silicon	ppm	<b>4</b>	2	2	2
Sodium	ppm	<b>3</b>	<1	<1	1
Potassium	ppm	<b>&lt;1</b>	<1	0	0

**Diagnosis**  
 The filter change at the time of sampling has been noted. 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>3</b>	2	0	2
Copper	ppm	<b>8</b>	6	8	8
Lead	ppm	<b>2</b>	<1	<1	2
Tin	ppm	<b>&lt;1</b>	0	0	0
Aluminum	ppm	<b>&lt;1</b>	0	<1	<1
Chromium	ppm	<b>1</b>	<1	<1	<1
Molybdenum	ppm	<b>0</b>	0	0	0
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	0	<1	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	<1	0
Vanadium	ppm	<b>0</b>	0	<1	0

### ADDITIVES

Calcium	ppm	<b>43</b>	60	40	45
Magnesium	ppm	<b>0</b>	<1	1	2
Zinc	ppm	<b>434</b>	440	353	416
Phosphorus	ppm	<b>328</b>	345	296	333
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	0	0	0

**Depot:** VOLVO0080  
**Unique No:** 10615555  
**Signed:** Wes Davis  
**Report Date:** 22 Aug 2023

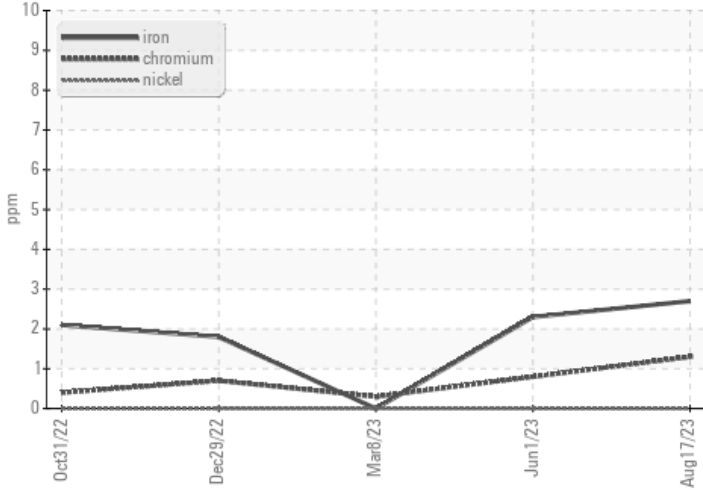


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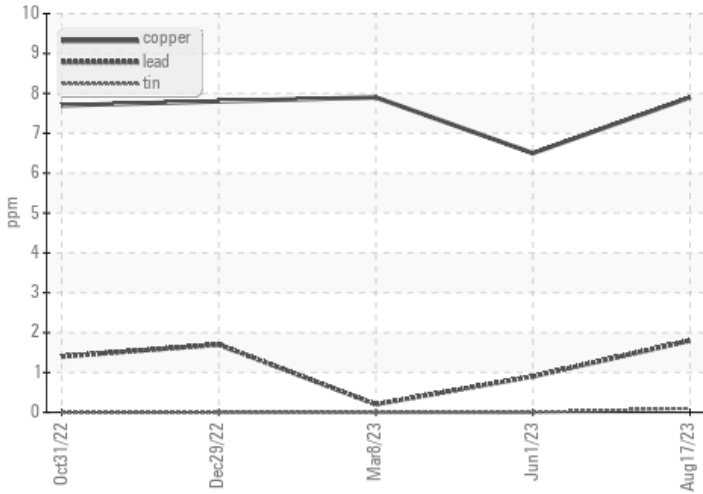


## GRAPHS

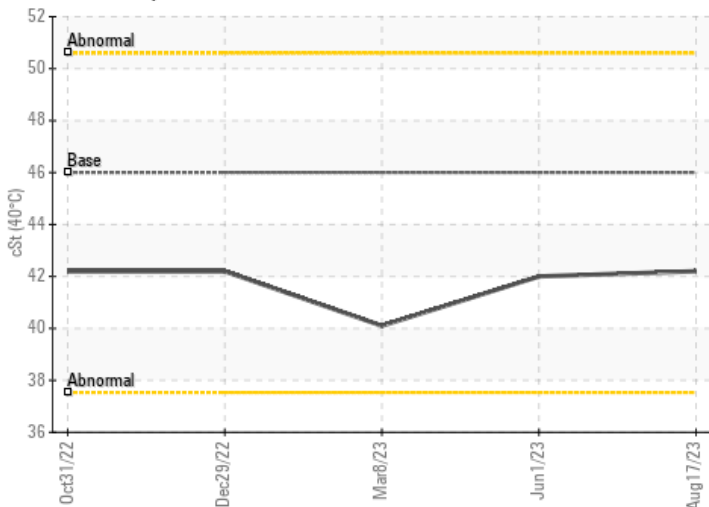
### Ferrous Alloys



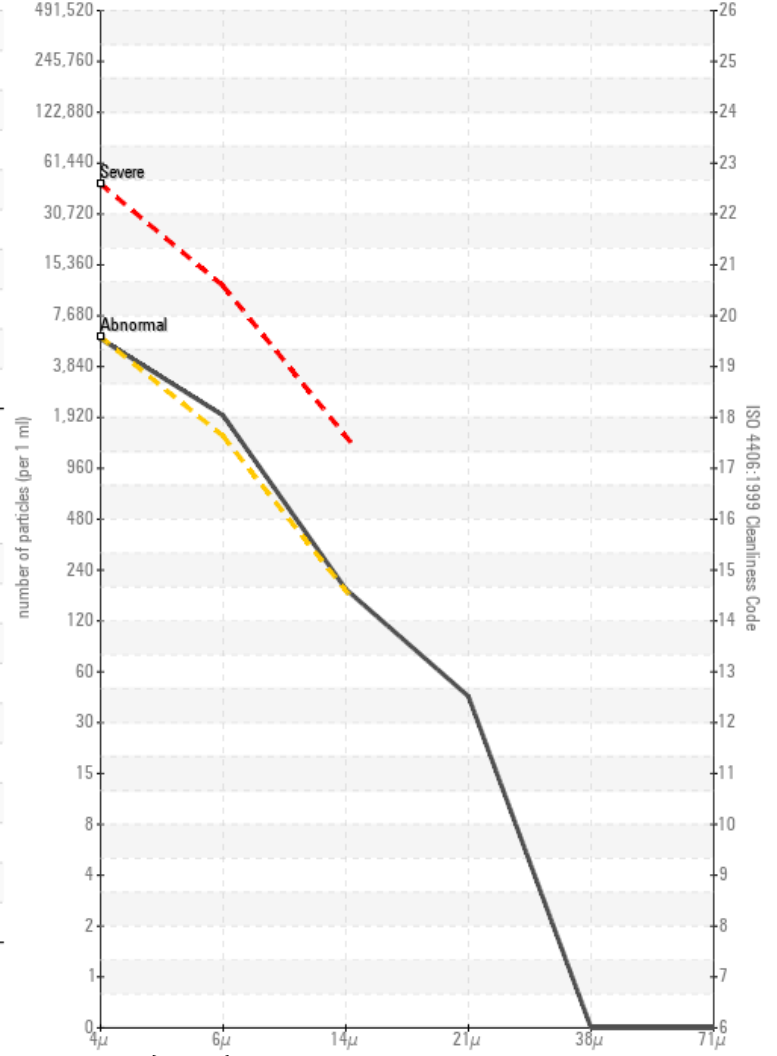
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

