



# CONSTRUCTION EQUIPMENT

## VOLVO EC480EL 314981 - HYDRAULIC SYSTEM



**Sample No:** VCP433863  
**Oil Type:** AW HYDRAULIC OIL ISO 46  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP433863</b>	VCP369499	VCP405909	VCP402282
Sample Date	<b>23 Oct 2023</b>	07 Aug 2023	07 Jun 2023	22 Mar 2023
Machine Hours	<b>2416</b>	1929	1475	982
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Changd</b>	Changed	Not Changd	Not Changd
Sample Status	<b>ABNORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>42.5</b>	41.8	42.3	42.4
Acid Number (AN)	mg KOH/g	<b>0.83</b>	0.53	0.54	0.51

### CONTAMINATION

Particles >4µm	<b>▲ 80876</b>	1332	9479	1533	
Particles >6µm	<b>▲ 14297</b>	328	1594	352	
Particles >14µm	<b>■ 313</b>	17	57	17	
ISO 4406:1999 (c)	<b>24/21/15</b>	18/16/11	20/18/13	18/16/11	
Silicon	ppm	<b>6</b>	5	5	4
Sodium	ppm	<b>3</b>	2	0	0
Potassium	ppm	<b>0</b>	2	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 high 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 acceptable for the time in service.

### WEAR METALS

Iron	ppm	<b>6</b>	5	4	2
Copper	ppm	<b>37</b>	42	33	22
Lead	ppm	<b>&lt;1</b>	2	<1	0
Tin	ppm	<b>2</b>	<1	<1	<1
Aluminum	ppm	<b>&lt;1</b>	<1	0	0
Chromium	ppm	<b>&lt;1</b>	<1	<1	0
Molybdenum	ppm	<b>2</b>	<1	0	<1
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	<1	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	<1	0	0

### ADDITIVES

Calcium	ppm	<b>80</b>	93	99	100
Magnesium	ppm	<b>254</b>	2	<1	4
Zinc	ppm	<b>793</b>	537	553	591
Phosphorus	ppm	<b>670</b>	431	411	427
Barium	ppm	<b>19</b>	0	0	0
Boron	ppm	<b>0</b>	0	0	0

**Depot:** SAIBIR  
**Unique No:** 10722632  
**Signed:** Don Baldrige  
**Report Date:** 01 Nov 2023

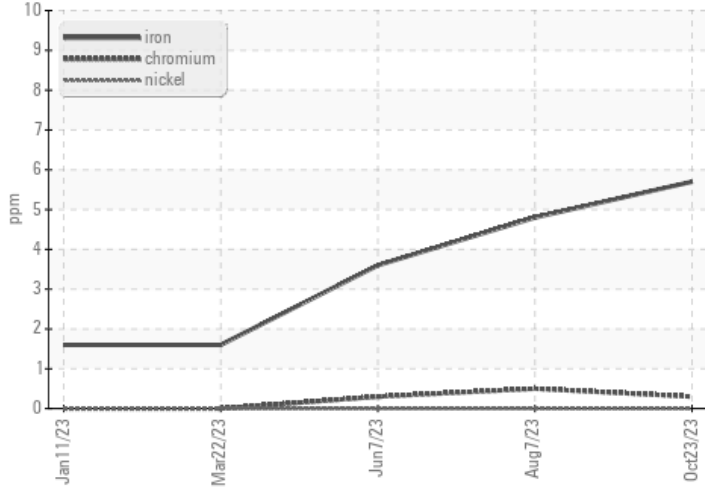


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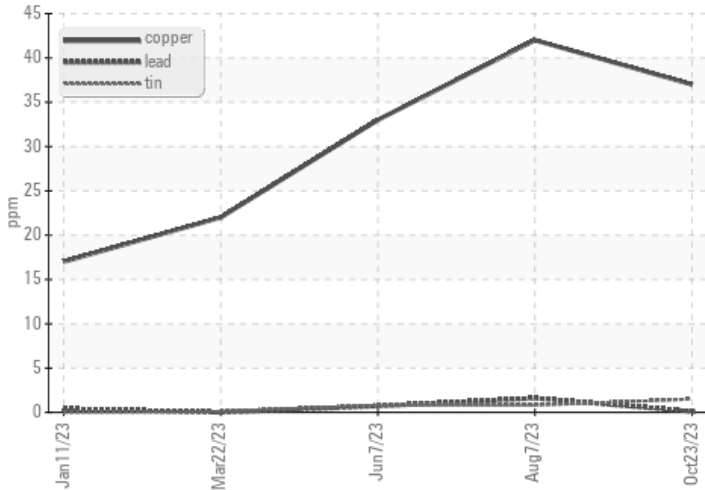


## VOLVO GRAPHS

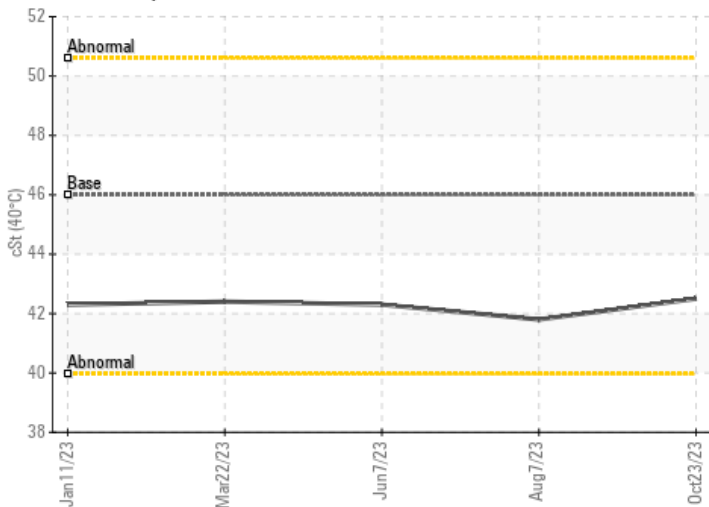
### Ferrous Alloys



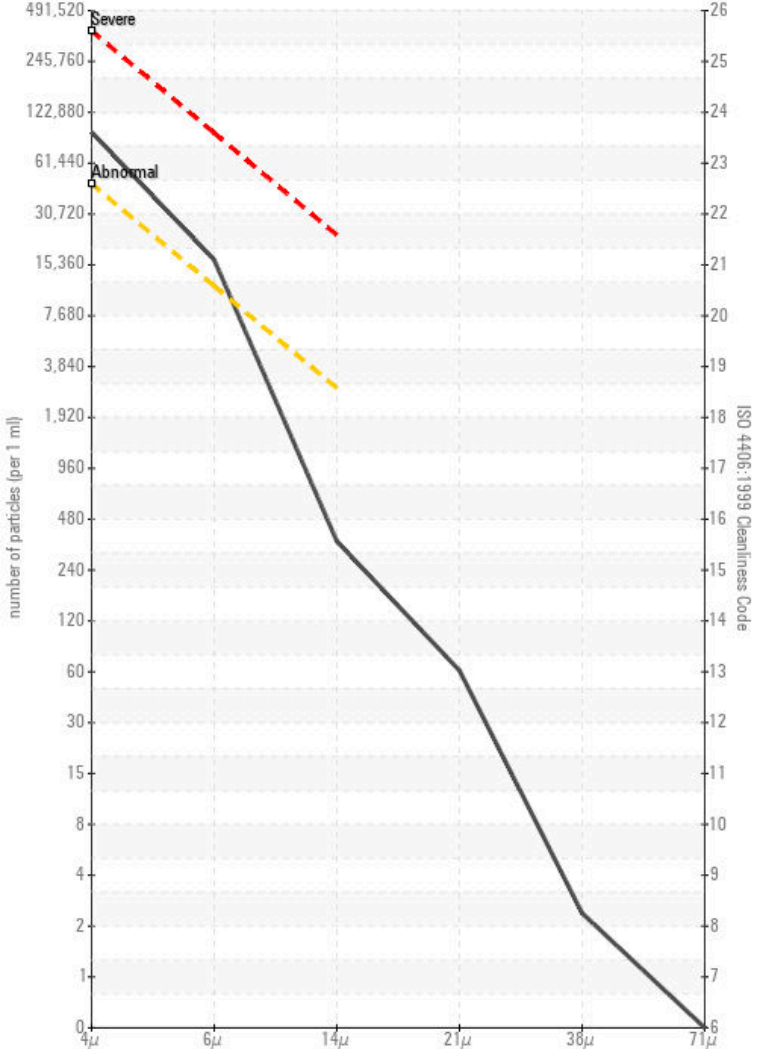
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

