



# CONSTRUCTION EQUIPMENT

## 3029 VOLVO EC480EL 311334 - HYDRAULIC SYSTEM



**Sample No:** VCP383277  
**Oil Type:** CASTROL HD AW ISO 46  
**Job No:** 3029



### SAMPLE INFORMATION

Sample Number	<b>VCP383277</b>	VCP383174	VCP384915	---
Sample Date	<b>13 Dec 2023</b>	20 Oct 2023	04 Jan 2023	---
Machine Hours	<b>0</b>	5780	4860	---
Oil Hours	<b>0</b>	0	1000	---
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

**LEONARDS CONTRACTING**  
 30850 STEPHENSON HWY  
 MADISON HEIGHTS, MI  
 US 48071  
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### OIL CONDITION

Visc @ 40°C	cSt	<b>40.2</b>	40.2	41.9	---
Acid Number (AN)	mg KOH/g	<b>0.38</b>	0.38	0.40	---

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Particles >4µm		<b>1417</b>	2092	1949	---
Particles >6µm		<b>390</b>	442	141	---
Particles >14µm		<b>28</b>	28	14	---
ISO 4406:1999 (c)		<b>18/16/12</b>	18/16/12	18/14/11	---
Silicon	ppm	<b>2</b>	2	4	---
Sodium	ppm	<b>0</b>	0	2	---
Potassium	ppm	<b>0</b>	1	0	---

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

### WEAR METALS

Iron	ppm	<b>5</b>	6	4	---
Copper	ppm	<b>13</b>	16	27	---
Lead	ppm	<b>0</b>	<1	0	---
Tin	ppm	<b>0</b>	0	<1	---
Aluminum	ppm	<b>0</b>	<1	<1	---
Chromium	ppm	<b>2</b>	1	2	---
Molybdenum	ppm	<b>0</b>	0	0	---
Nickel	ppm	<b>0</b>	0	0	---
Titanium	ppm	<b>0</b>	0	0	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>0</b>	0	0	---
Vanadium	ppm	<b>&lt;1</b>	0	0	---

### ADDITIVES

Calcium	ppm	<b>0</b>	33	27	---
Magnesium	ppm	<b>0</b>	<1	0	---
Zinc	ppm	<b>260</b>	337	278	---
Phosphorus	ppm	<b>232</b>	295	332	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>0</b>	0	0	---

**Depot:** LEOMAD  
**Unique No:** 10789807  
**Signed:** Jonathan Hester  
**Report Date:** 18 Dec 2023

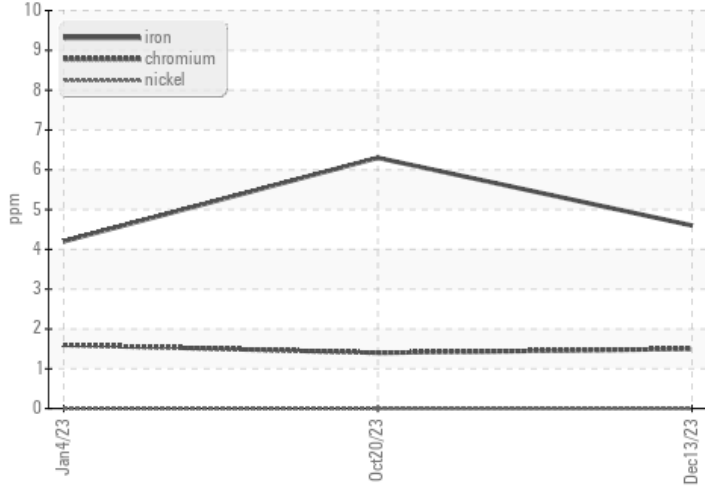


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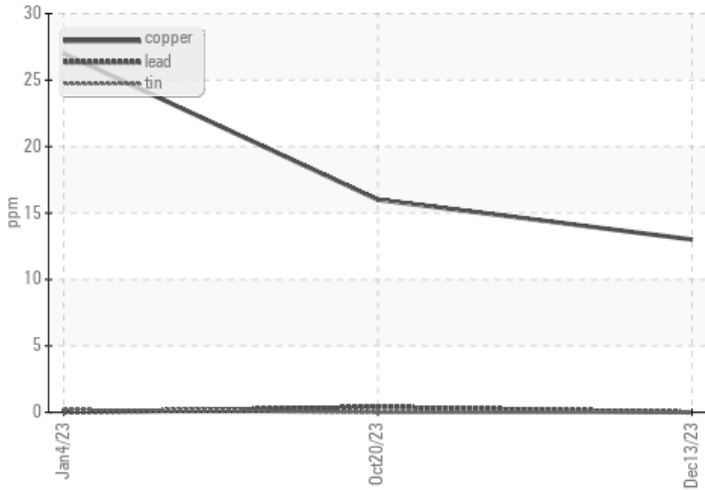


## GRAPHS

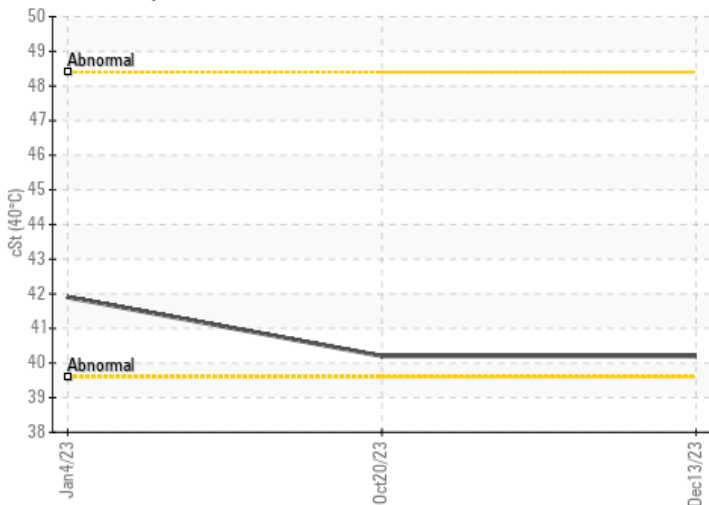
### Ferrous Alloys



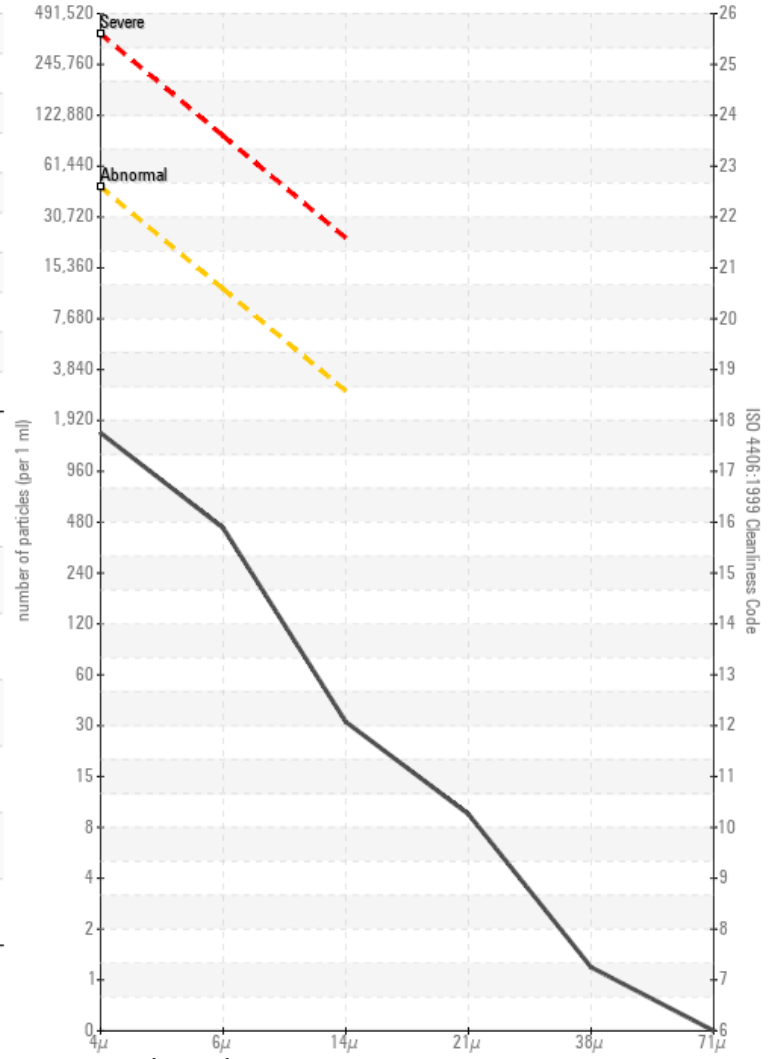
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

