



# CONSTRUCTION EQUIPMENT

## X48144 VOLVO EC380EL 311913 - REAR LEFT FINAL DRIVE



**Sample No:** VCP450957  
**Oil Type:** GEAR OIL SAE 75W80  
**Job No:** X48144



### SAMPLE INFORMATION

Sample Number	<b>VCP450957</b>	VCP439333	VCP341441	---
Sample Date	<b>08 May 2024</b>	21 Mar 2024	23 Jun 2022	---
Machine Hours	<b>6192</b>	6188	4252	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Not Chngd</b>	N/A	N/A	---
Sample Status	<b>SEVERE</b>	SEVERE	SEVERE	---

**SCOTT EQUIPMENT COMPANY LLC - Lavergne**  
 1231 BRIDGESTONE PARKWAY  
 LAVERGNE, TN  
 US 37086  
 Contact: ANDY CHAMBERS  
 achambers@scottcompanies.com  
 T:  
 F: (615)793-9655



### OIL CONDITION

Visc @ 40°C	cSt	<b>310</b>	310	169	---
-------------	-----	------------	-----	-----	-----



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Silicon	ppm	<b>▲ 216</b>	▲ 211	▲ 541	---
Sodium	ppm	<b>■ 3</b>	■ 2	■ 4	---
Potassium	ppm	<b>■ 14</b>	■ 14	■ 27	---

### Diagnosis

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil viscosity is higher than normal. Confirm oil type. The oil is no longer serviceable due to the presence of contaminants.



### WEAR METALS

Iron	ppm	<b>▲ 1068</b>	▲ 1097	▲ 2498	---
Copper	ppm	<b>■ 3</b>	■ 2	■ 5	---
Lead	ppm	<b>■ 0</b>	■ 0	■ <1	---
Tin	ppm	<b>■ 0</b>	■ <1	■ 0	---
Aluminum	ppm	<b>● 52</b>	● 46	● 116	---
Chromium	ppm	<b>▲ 15</b>	▲ 14	▲ 38	---
Molybdenum	ppm	<b>■ 1</b>	■ <1	■ 4	---
Nickel	ppm	<b>■ &lt;1</b>	■ 1	■ <1	---
Titanium	ppm	<b>4</b>	4	9	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>■ 8</b>	■ 8	■ 21	---
Vanadium	ppm	<b>&lt;1</b>	<1	<1	---



### ADDITIVES

Calcium	ppm	<b>■ 103</b>	■ 97	■ 167	---
Magnesium	ppm	<b>■ 11</b>	■ 13	■ 18	---
Zinc	ppm	<b>■ 10</b>	■ 1	■ 22	---
Phosphorus	ppm	<b>■ 1138</b>	■ 1177	■ 1409	---
Barium	ppm	<b>■ &lt;1</b>	■ 0	■ 0	---
Boron	ppm	<b>■ 181</b>	■ 145	■ 69	---

**Depot:** VOLV00129  
**Unique No:** 11030530  
**Signed:** Don Baldrige  
**Report Date:** 16 May 2024

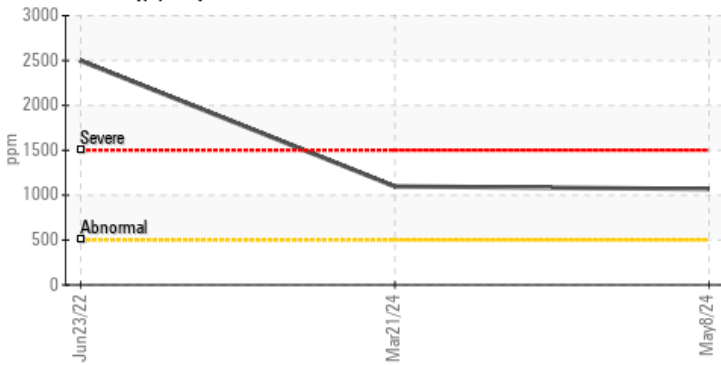


# CONSTRUCTION EQUIPMENT

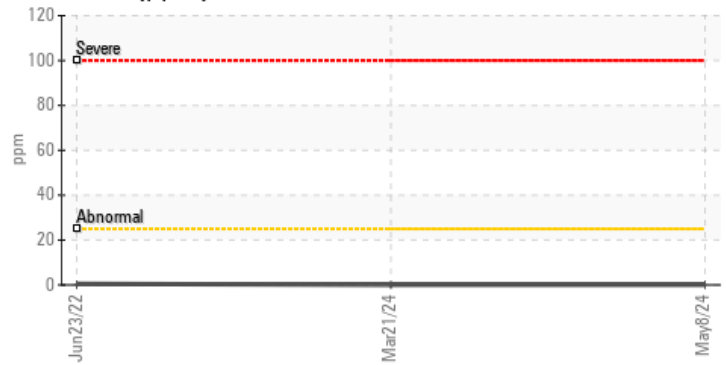


## GRAPHS

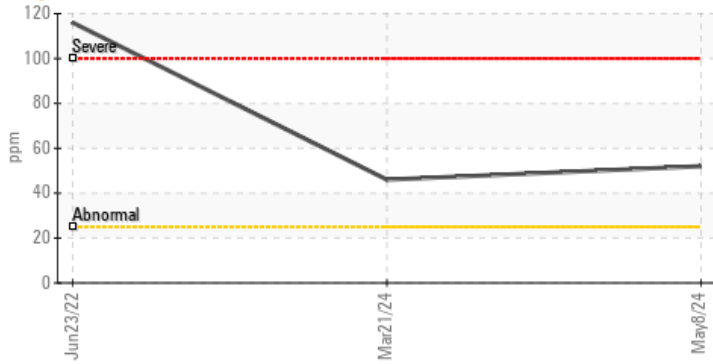
### ▲ Iron (ppm)



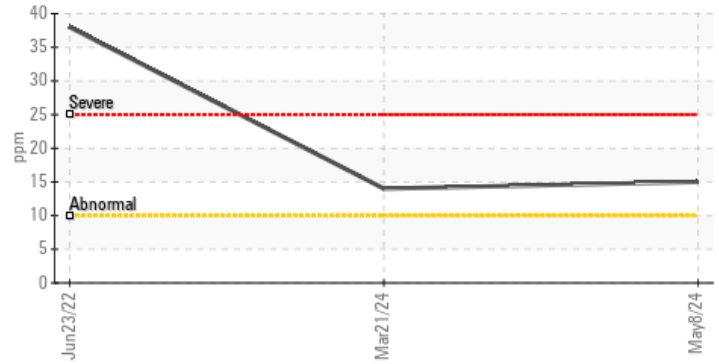
### Lead (ppm)



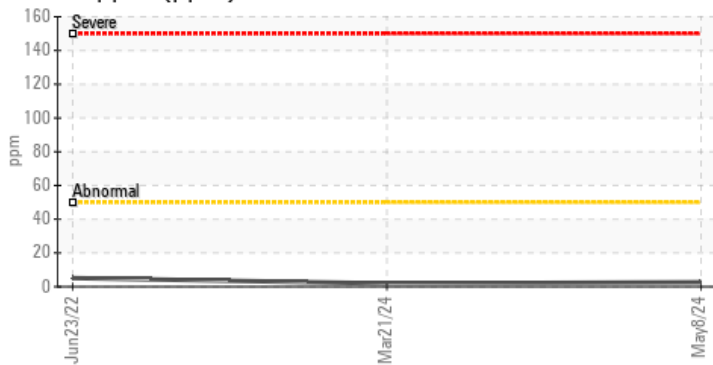
### ● Aluminum (ppm)



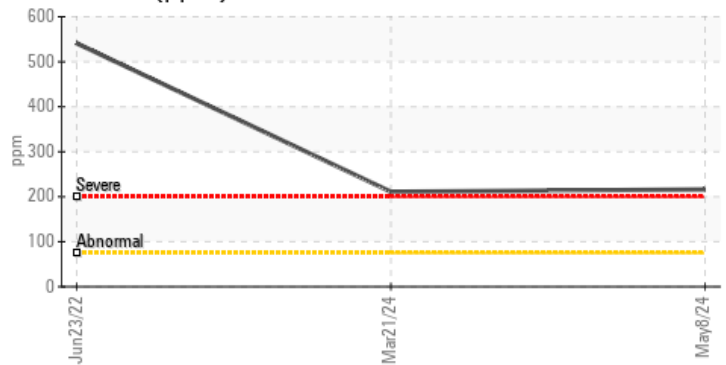
### ▲ Chromium (ppm)



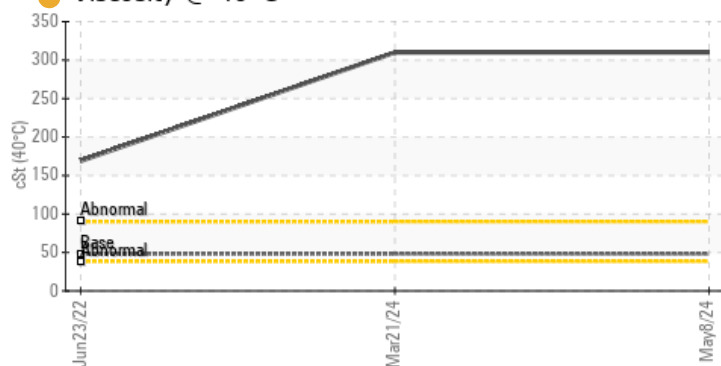
### Copper (ppm)



### ▲ Silicon (ppm)



### ● Viscosity @ 40°C



### Additives

