



# CONSTRUCTION EQUIPMENT

## VOLVO EC220EL 314928 - REAR RIGHT FINAL DRIVE



**Sample No:** VCP434883

**Oil Type:** VOLVO PREMIUM GEAR OIL 80W-90 GL-5

**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP434883</b>	VCP406196	---	---
Sample Date	<b>18 Jun 2024</b>	25 Apr 2023	---	---
Machine Hours	<b>1515</b>	510	---	---
Oil Hours	<b>1000</b>	510	---	---
Oil Changed	<b>Not Chngd</b>	Not Chngd	---	---
Sample Status	<b>SEVERE</b>	NORMAL	---	---

### LEONARDS CONTRACTING

30850 STEPHENSON HWY  
MADISON HEIGHTS, MI  
US 48071

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### OIL CONDITION

Visc @ 40°C	cSt	<b>178</b>	170	---	---
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### CONTAMINATION

Water	%	<b>NEG</b>	NEG	---	---
Silicon	ppm	<b>▲ 1717</b>	558	---	---
Sodium	ppm	<b>47</b>	17	---	---
Potassium	ppm	<b>95</b>	44	---	---



### WEAR METALS

Iron	ppm	<b>▲ 5081</b>	756	---	---
Copper	ppm	<b>6</b>	<1	---	---
Lead	ppm	<b>&lt;1</b>	0	---	---
Tin	ppm	<b>0</b>	0	---	---
Aluminum	ppm	<b>● 224</b>	125	---	---
Chromium	ppm	<b>▲ 45</b>	12	---	---
Molybdenum	ppm	<b>5</b>	2	---	---
Nickel	ppm	<b>▲ 13</b>	4	---	---
Titanium	ppm	<b>13</b>	6	---	---
Silver	ppm	<b>0</b>	0	---	---
Manganese	ppm	<b>52</b>	13	---	---
Vanadium	ppm	<b>&lt;1</b>	<1	---	---



### ADDITIVES

Calcium	ppm	<b>425</b>	202	---	---
Magnesium	ppm	<b>116</b>	55	---	---
Zinc	ppm	<b>17</b>	12	---	---
Phosphorus	ppm	<b>341</b>	378	---	---
Barium	ppm	<b>4</b>	<1	---	---
Boron	ppm	<b>6</b>	2	---	---

### 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 advise that you inspect for the source(s) of wear. 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 is no longer serviceable due to the presence of contaminants.

**Depot:** LEOMAD  
**Unique No:** 11099785  
**Signed:** Jonathan Hester  
**Report Date:** 28 Jun 2024



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## GRAPHS

