



# CONSTRUCTION EQUIPMENT

## X59829 VOLVO EC350EL 314453 - REAR LEFT FINAL DRIVE



**Sample No:** VCP441794  
**Oil Type:** VOLVO PREMIUM GEAR OIL 85W-140 GL-5  
**Job No:** X59829



### SAMPLE INFORMATION

Sample Number	<b>VCP441794</b>	VCP367129	---	---
Sample Date	<b>01 Jul 2024</b>	27 Feb 2023	---	---
Machine Hours	<b>970</b>	302	---	---
Oil Hours	<b>0</b>	0	---	---
Oil Changed	<b>Changed</b>	N/A	---	---
Sample Status	<b>SEVERE</b>	ABNORMAL	---	---

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### OIL CONDITION

Visc @ 40°C	cSt	<b>314</b>	174	---	---
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### CONTAMINATION

Water	%	<b>NEG</b>	NEG	---	---
Silicon	ppm	<b>318</b>	104	---	---
Sodium	ppm	<b>8</b>	4	---	---
Potassium	ppm	<b>12</b>	6	---	---

### Diagnosis

We advise that you check all areas where dirt can enter the system. We recommend an early resample to monitor this condition. Gear wear is indicated. All other metal levels are typical for a new component breaking in. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.



### WEAR METALS

Iron	ppm	<b>2023</b>	645	---	---
Copper	ppm	<b>4</b>	<1	---	---
Lead	ppm	<b>0</b>	0	---	---
Tin	ppm	<b>0</b>	0	---	---
Aluminum	ppm	<b>52</b>	18	---	---
Chromium	ppm	<b>51</b>	21	---	---
Molybdenum	ppm	<b>5</b>	2	---	---
Nickel	ppm	<b>3</b>	2	---	---
Titanium	ppm	<b>6</b>	1	---	---
Silver	ppm	<b>0</b>	<1	---	---
Manganese	ppm	<b>18</b>	8	---	---
Vanadium	ppm	<b>0</b>	<1	---	---



### ADDITIVES

Calcium	ppm	<b>230</b>	38	---	---
Magnesium	ppm	<b>11</b>	4	---	---
Zinc	ppm	<b>27</b>	14	---	---
Phosphorus	ppm	<b>894</b>	317	---	---
Barium	ppm	<b>2</b>	0	---	---
Boron	ppm	<b>100</b>	<1	---	---

**Depot:** SCOSAI  
**Unique No:** 11116074  
**Signed:** Don Baldrige  
**Report Date:** 12 Jul 2024



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## GRAPHS

