



# CONSTRUCTION EQUIPMENT

## 5809HO VOLVO ECR355EL 310191 - REAR RIGHT FINAL DRIVE



**Sample No:** VCP452213  
**Oil Type:** VOLVO SUPER GEAR OIL 75W-80-GO102  
**Job No:** 5809HO



### SAMPLE INFORMATION

Sample Number	<b>VCP452213</b>	VCP293494	VCP263948	---
Sample Date	<b>09 Feb 2024</b>	16 Sep 2022	16 Jul 2020	---
Machine Hours	<b>3809</b>	2172	496	---
Oil Hours	<b>2000</b>	0	0	---
Oil Changed	<b>Changed</b>	Changed	N/A	---
Sample Status	<b>SEVERE</b>	SEVERE	NORMAL	---

**PENNSYLVANIA SUPPLY**  
 833 PAXTON STREET  
 HARRISBURG, PA  
 US 17104  
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### OIL CONDITION

Visc @ 40°C	cSt	<b>188</b>	243	180	---
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### CONTAMINATION

Water	%	<b>1.66</b>	0.644	NEG	---
Silicon	ppm	<b>60</b>	36	15	---
Sodium	ppm	<b>0</b>	0	1	---
Potassium	ppm	<b>12</b>	4	0	---

### Diagnosis

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. There is a high concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.



### WEAR METALS

Iron	ppm	<b>862</b>	666	232	---
Copper	ppm	<b>2</b>	<1	<1	---
Lead	ppm	<b>0</b>	<1	0	---
Tin	ppm	<b>0</b>	<1	2	---
Aluminum	ppm	<b>20</b>	12	1	---
Chromium	ppm	<b>64</b>	52	9	---
Molybdenum	ppm	<b>7</b>	6	0	---
Nickel	ppm	<b>5</b>	4	<1	---
Titanium	ppm	<b>2</b>	<1	<1	---
Silver	ppm	<b>0</b>	0	<1	---
Manganese	ppm	<b>8</b>	8	2	---
Vanadium	ppm	<b>0</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>2049</b>	1644	301	---
Magnesium	ppm	<b>61</b>	54	13	---
Zinc	ppm	<b>41</b>	44	16	---
Phosphorus	ppm	<b>927</b>	737	362	---
Barium	ppm	<b>0</b>	0	4	---
Boron	ppm	<b>80</b>	60	2	---

**Depot:** PENHAR  
**Unique No:** 10885425  
**Signed:** Don Baldrige  
**Report Date:** 20 Feb 2024



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## GRAPHS

