



# CONSTRUCTION EQUIPMENT

## X48285 VOLVO EC350 310659 - FRONT RIGHT FINAL DRIVE



**Sample No:** VCP435977  
**Oil Type:** VOLVO PREMIUM GEAR OIL 80W-90 GL-5  
**Job No:** X48285



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### SAMPLE INFORMATION

Sample Number	<b>VCP435977</b>	VCP417995	---	---
Sample Date	<b>22 Dec 2023</b>	23 Jul 2023	---	---
Machine Hours	<b>7067</b>	6125	---	---
Oil Hours	<b>0</b>	0	---	---
Oil Changed	<b>N/A</b>	N/A	---	---
Sample Status	<b>SEVERE</b>	SEVERE	---	---



### OIL CONDITION

Visc @ 40°C	cSt	<b>181</b>	---	---	---
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### CONTAMINATION

Water	%	<b>0.357</b>	1.04	---	---
Silicon	ppm	<b>10651</b>	3630	---	---
Sodium	ppm	<b>30</b>	9	---	---
Potassium	ppm	<b>132</b>	36	---	---



### WEAR METALS

Iron	ppm	<b>21943</b>	8350	---	---
Copper	ppm	<b>43</b>	15	---	---
Lead	ppm	<b>0</b>	0	---	---
Tin	ppm	<b>0</b>	2	---	---
Aluminum	ppm	<b>787</b>	236	---	---
Chromium	ppm	<b>236</b>	95	---	---
Molybdenum	ppm	<b>31</b>	14	---	---
Nickel	ppm	<b>23</b>	7	---	---
Titanium	ppm	<b>110</b>	36	---	---
Silver	ppm	<b>0</b>	0	---	---
Manganese	ppm	<b>155</b>	59	---	---
Vanadium	ppm	<b>0</b>	<1	---	---



### ADDITIVES

Calcium	ppm	<b>85</b>	1	---	---
Magnesium	ppm	<b>43</b>	8	---	---
Zinc	ppm	<b>35</b>	5	---	---
Phosphorus	ppm	<b>577</b>	114	---	---
Barium	ppm	<b>7</b>	0	---	---
Boron	ppm	<b>21</b>	0	---	---

### Diagnosis

We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. 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. There is a moderate concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.

**Depot:** VOLVO6244  
**Unique No:** 10809863  
**Signed:** Jonathan Hester  
**Report Date:** 04 Jan 2024



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## GRAPHS

