



# CONSTRUCTION EQUIPMENT

## 9633 VOLVO EC250E 314006 - REAR RIGHT FINAL DRIVE



**Sample No:** VCP413780  
**Oil Type:** CHEVRON DELO GEAR ESI OIL 85W140  
**Job No:** 9633



### SAMPLE INFORMATION

Sample Number	<b>VCP413780</b>	VCP302513	VCP297081	---
Sample Date	<b>13 Sep 2023</b>	14 Jun 2021	16 Dec 2020	---
Machine Hours	<b>2515</b>	1507	1116	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>SEVERE</b>	ABNORMAL	ATTENTION	---

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### OIL CONDITION

Visc @ 40°C	cSt	<b>328</b>	169	<b>141</b>	---
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### CONTAMINATION

Water	%	<b>0.674</b>	---	---	---
Silicon	ppm	<b>264</b>	64	18	---
Sodium	ppm	<b>36</b>	4	3	---
Potassium	ppm	<b>16</b>	<1	0	---



### WEAR METALS

Iron	ppm	<b>1309</b>	589	482	---
Copper	ppm	<b>2</b>	<1	<1	---
Lead	ppm	<b>0</b>	0	0	---
Tin	ppm	<b>&lt;1</b>	<1	0	---
Aluminum	ppm	<b>29</b>	29	4	---
Chromium	ppm	<b>15</b>	14	14	---
Molybdenum	ppm	<b>2</b>	2	2	---
Nickel	ppm	<b>1</b>	<1	<1	---
Titanium	ppm	<b>3</b>	2	<1	---
Silver	ppm	<b>0</b>	<1	<1	---
Manganese	ppm	<b>12</b>	7	6	---
Vanadium	ppm	<b>&lt;1</b>	<1	0	---



### ADDITIVES

Calcium	ppm	<b>27</b>	37	44	---
Magnesium	ppm	<b>5</b>	4	<1	---
Zinc	ppm	<b>10</b>	28	34	---
Phosphorus	ppm	<b>1050</b>	1551	1762	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>164</b>	120	111	---

### 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. The oil change at the time of sampling has been noted. 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:** VOLV00150  
**Unique No:** 10657916  
**Signed:** Jonathan Hester  
**Report Date:** 22 Sep 2023



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## GRAPHS

