



# CONSTRUCTION EQUIPMENT

## 10160 ENVIROVANTAGRE VOLVO EC380E 3 14814 - REAR LEFT FINAL DRIVE



**Sample No:** VCP413846  
**Oil Type:** CHEVRON DELO GEAR ESI OIL 85W140  
**Job No:** 10160 ENVIROVANTAGRE



### SAMPLE INFORMATION

Sample Number	<b>VCP413846</b>	VCP422154	VCP360331	---
Sample Date	<b>03 Jan 2024</b>	13 Dec 2023	18 Mar 2022	---
Machine Hours	<b>2142</b>	2128	607	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Not Chngd</b>	Changed	Changed	---
Sample Status	<b>ABNORMAL</b>	SEVERE	ABNORMAL	---

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### OIL CONDITION

Visc @ 40°C	cSt	<b>329</b>	297	179	---
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### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Silicon	ppm	<b>▲ 290</b>	1353	▲ 85	---
Sodium	ppm	<b>■ 0</b>	10	2	---
Potassium	ppm	<b>■ 14</b>	43	3	---

### Diagnosis

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. Gear wear is indicated. 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>▲ 915</b>	4058	136	---
Copper	ppm	<b>■ 3</b>	8	0	---
Lead	ppm	<b>■ &lt;1</b>	1	0	---
Tin	ppm	<b>■ 0</b>	0	0	---
Aluminum	ppm	<b>▲ 43</b>	199	26	---
Chromium	ppm	<b>■ 9</b>	42	4	---
Molybdenum	ppm	<b>■ 1</b>	5	<1	---
Nickel	ppm	<b>■ 1</b>	5	0	---
Titanium	ppm	<b>5</b>	20	2	---
Silver	ppm	<b>0</b>	0	<1	---
Manganese	ppm	<b>■ 7</b>	33	3	---
Vanadium	ppm	<b>0</b>	<1	0	---



### ADDITIVES

Calcium	ppm	<b>■ 18</b>	66	14	---
Magnesium	ppm	<b>■ 8</b>	32	3	---
Zinc	ppm	<b>■ 0</b>	13	0	---
Phosphorus	ppm	<b>■ 950</b>	979	375	---
Barium	ppm	<b>■ 8</b>	11	3	---
Boron	ppm	<b>■ 176</b>	125	9	---

**Depot:** VOLV00150  
**Unique No:** 10820290  
**Signed:** Jonathan Hester  
**Report Date:** 10 Jan 2024



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## GRAPHS

