



# CONSTRUCTION EQUIPMENT

LAKESIDE 8-366540 VOLVO ECR88D 217414 - REAR LEFT FINAL DRIVE



**Sample No:** VCP391933  
**Oil Type:** GEAR OIL SAE 80W90  
**Job No:** 8-366540



## SAMPLE INFORMATION

Sample Number	<b>VCP391933</b>	VCP353024	---	---
Sample Date	<b>27 Jun 2023</b>	03 Oct 2022	---	---
Machine Hours	<b>1118</b>	575	---	---
Oil Hours	<b>0</b>	0	---	---
Oil Changed	<b>Changed</b>	Changed	---	---
Sample Status	<b>ABNORMAL</b>	NORMAL	---	---

### STRONGCO EQUIPMENT INC.

1640 ENTERPRISE ROAD  
MISSISSAUGA, ON  
CA L4W 4L4

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## OIL CONDITION

Visc @ 40°C	cSt	<b>145</b>	172	---	---
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## CONTAMINATION

Silicon	ppm	<b>▲ 299</b>	3	---	---
Sodium	ppm	<b>19</b>	2	---	---
Potassium	ppm	<b>18</b>	1	---	---



## WEAR METALS

PQ		<b>510</b>	---	---	---
Iron	ppm	<b>▲ 953</b>	124	---	---
Copper	ppm	<b>2</b>	<1	---	---
Lead	ppm	<b>0</b>	0	---	---
Tin	ppm	<b>0</b>	0	---	---
Aluminum	ppm	<b>▲ 53</b>	<1	---	---
Chromium	ppm	<b>6</b>	3	---	---
Molybdenum	ppm	<b>&lt;1</b>	1	---	---
Nickel	ppm	<b>&lt;1</b>	0	---	---
Titanium	ppm	<b>4</b>	<1	---	---
Silver	ppm	<b>0</b>	0	---	---
Manganese	ppm	<b>7</b>	3	---	---
Vanadium	ppm	<b>&lt;1</b>	0	---	---



## ADDITIVES

Calcium	ppm	<b>233</b>	8	---	---
Magnesium	ppm	<b>17</b>	<1	---	---
Zinc	ppm	<b>14</b>	17	---	---
Phosphorus	ppm	<b>1911</b>	311	---	---
Barium	ppm	<b>&lt;1</b>	8	---	---
Boron	ppm	<b>105</b>	<1	---	---

## Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) GEAR OIL SAE 80W90. Please confirm. Iron ppm levels are abnormal. Aluminum ppm levels are noted. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. High amount of ingressed dirt has caused abrasive wear to the component. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

**Depot:** SHEMIS  
**Unique No:** 5605935  
**Signed:** Kevin Marson  
**Report Date:** 11 Jul 2023



# CONSTRUCTION EQUIPMENT



## VOLVO GRAPHS

