



# CONSTRUCTION EQUIPMENT

443969 ATLAS ORG VOLVO EC220E 314134 - REAR RIGHT FINAL DRIVE



**Sample No:** VCP428728  
**Oil Type:** VOLVO PREMIUM GEAR OIL 85W-140 GL-5  
**Job No:** 443969 ATLAS ORG



## SAMPLE INFORMATION

Sample Number	<b>VCP428728</b>	VCP418340	VCP415607	---
Sample Date	<b>21 Dec 2023</b>	12 Sep 2023	21 Jun 2023	---
Machine Hours	<b>7771</b>	7093	6525	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Changed</b>	Not Chngd	Changed	---
Sample Status	<b>ABNORMAL</b>	NORMAL	NORMAL	---

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## OIL CONDITION

Visc @ 40°C	cSt	<b>161</b>	161	162	---
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## CONTAMINATION

Water	%	<b>0.180</b>	NEG	NEG	---
Silicon	ppm	<b>97</b>	33	16	---
Sodium	ppm	<b>17</b>	5	3	---
Potassium	ppm	<b>51</b>	16	4	---

## 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. 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>758</b>	384	213	---
Copper	ppm	<b>&lt;1</b>	<1	1	---
Lead	ppm	<b>0</b>	0	0	---
Tin	ppm	<b>0</b>	0	0	---
Aluminum	ppm	<b>6</b>	<1	4	---
Chromium	ppm	<b>10</b>	5	3	---
Molybdenum	ppm	<b>1</b>	1	<1	---
Nickel	ppm	<b>6</b>	4	3	---
Titanium	ppm	<b>&lt;1</b>	<1	<1	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>8</b>	4	3	---
Vanadium	ppm	<b>0</b>	0	0	---



## ADDITIVES

Calcium	ppm	<b>52</b>	53	13	---
Magnesium	ppm	<b>3</b>	2	4	---
Zinc	ppm	<b>15</b>	36	11	---
Phosphorus	ppm	<b>986</b>	915	874	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>81</b>	94	94	---

**Depot:** VOLVO0093  
**Unique No:** 10808682  
**Signed:** Don Baldrige  
**Report Date:** 02 Jan 2024



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## GRAPHS

