



# CONSTRUCTION EQUIPMENT

HERC RENTAL VOLVO EC200 314412 - FRONT LEFT FINAL DRIVE



**Sample No:** VCP353531  
**Oil Type:** VOLVO PREMIUM GEAR OIL 80W-90 GL-5  
**Job No:** HERC RENTAL



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## SAMPLE INFORMATION

Sample Number	VCP353531	---	---	---
Sample Date	04 Aug 2022	---	---	---
Machine Hours	974	---	---	---
Oil Hours	1500	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	SEVERE	---	---	---



## OIL CONDITION

Visc @ 40°C	cSt	█ 188	---	---	---
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## CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	◆ 212	---	---	---
Sodium	ppm	█ 4	---	---	---
Potassium	ppm	█ 15	---	---	---



## WEAR METALS

Iron	ppm	◆ 2405	---	---	---
Copper	ppm	█ 2	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	▲ 16	---	---	---
Chromium	ppm	◆ 31	---	---	---
Molybdenum	ppm	█ 6	---	---	---
Nickel	ppm	6	---	---	---
Titanium	ppm	1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 29	---	---	---
Vanadium	ppm	0	---	---	---



## ADDITIVES

Calcium	ppm	█ 40	---	---	---
Magnesium	ppm	█ 10	---	---	---
Zinc	ppm	█ 52	---	---	---
Phosphorus	ppm	█ 411	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 13	---	---	---

## Diagnosis

We advise that you check all areas where dirt can enter the system. 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. Moderate concentration of visible metal present. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

**Depot:** VOLVO0093  
**Unique No:** 10086169  
**Signed:** Jonathan Hester  
**Report Date:** 10 Aug 2022



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## GRAPHS

