



# CONSTRUCTION EQUIPMENT

139179 DOLESE VOLVO EC220D 210447 - FRONT LEFT FINAL DRIVE



**Sample No:** VCP413712  
**Oil Type:** {unknown}  
**Job No:** 139179 DOLESE



## SAMPLE INFORMATION

Sample Number	VCP413712	---	---	---
Sample Date	14 Jun 2024	---	---	---
Machine Hours	7249	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	SEVERE	---	---	---

**THE GW VAN KEPPEL CO**  
1876 NORTH 105TH EAST AVENUE  
TULSA, OK  
US 74116  
Contact: MIKE DEVORE  
MDEVORE@VANKEPPEL.COM  
T: (918)836-8851  
F: (918)834-1659



## OIL CONDITION

Visc @ 40°C	cSt	■ 197	---	---	---
-------------	-----	-------	-----	-----	-----



## CONTAMINATION

Water	%	▲ 0.314	---	---	---
Silicon	ppm	▲ 4176	---	---	---
Sodium	ppm	■ 73	---	---	---
Potassium	ppm	■ 215	---	---	---



## WEAR METALS

Iron	ppm	▲ 7453	---	---	---
Copper	ppm	■ 17	---	---	---
Lead	ppm	■ 2	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	● 793	---	---	---
Chromium	ppm	▲ 66	---	---	---
Molybdenum	ppm	11	---	---	---
Nickel	ppm	▲ 10	---	---	---
Titanium	ppm	■ 52	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	61	---	---	---
Vanadium	ppm	2	---	---	---



## ADDITIVES

Calcium	ppm	3213	---	---	---
Magnesium	ppm	268	---	---	---
Zinc	ppm	630	---	---	---
Phosphorus	ppm	679	---	---	---
Barium	ppm	4	---	---	---
Boron	ppm	21	---	---	---

## 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. The iron and chrome levels are severe. Gear wear is indicated. There is a light concentration of water present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.

**Depot:** VOLVO0053  
**Unique No:** 11085024  
**Signed:** Don Baldrige  
**Report Date:** 19 Jun 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

