



CONSTRUCTION EQUIPMENT

SVC053895 VOLVO EC220E 3 10730 - FRONT RIGHT FINAL DRIVE



Sample No: VCP437547
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: SVC053895



SAMPLE INFORMATION

Sample Number	VCP437547	---	---	---
Sample Date	30 Apr 2024	---	---	---
Machine Hours	2333	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	SEVERE	---	---	---

TYLER EQUIPMENT CORPORATION
 1980 BERLIN TURNPIKE
 BERLIN, CT
 US 06037
 Contact: KYLE SCHMITZ
 kschmitz@tylerequipment.com
 T: (860)356-0840
 F: (860)828-6727



OIL CONDITION

Visc @ 40°C	cSt	▲ 1309	---	---	---
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CONTAMINATION

Water	%	▲ 0.320	---	---	---
Silicon	ppm	▲ 4342	---	---	---
Sodium	ppm	■ 284	---	---	---
Potassium	ppm	■ 307	---	---	---



WEAR METALS

Iron	ppm	▲ 6542	---	---	---
Copper	ppm	■ 10	---	---	---
Lead	ppm	■ 4	---	---	---
Tin	ppm	■ 3	---	---	---
Aluminum	ppm	● 1007	---	---	---
Chromium	ppm	▲ 42	---	---	---
Molybdenum	ppm	■ 5	---	---	---
Nickel	ppm	▲ 30	---	---	---
Titanium	ppm	▲ 63	---	---	---
Silver	ppm	< 1	---	---	---
Manganese	ppm	■ 49	---	---	---
Vanadium	ppm	2	---	---	---



ADDITIVES

Calcium	ppm	■ 256	---	---	---
Magnesium	ppm	■ 109	---	---	---
Zinc	ppm	■ 23	---	---	---
Phosphorus	ppm	■ 974	---	---	---
Barium	ppm	■ 18	---	---	---
Boron	ppm	■ 120	---	---	---

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. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a light concentration of water present in the oil. The oil viscosity is higher than normal. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: VOLVO0005
Unique No: 11016387
Signed: Jonathan Hester
Report Date: 08 May 2024



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GRAPHS

