



CONSTRUCTION EQUIPMENT

3040 VOLVO EC220EL 314928 - FRONT LEFT FINAL DRIVE



Sample No: VCP434878
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: 3040



SAMPLE INFORMATION

Sample Number	VCP434878	---	---	---
Sample Date	18 Jun 2024	---	---	---
Machine Hours	1515	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	SEVERE	---	---	---

LEONARDS CONTRACTING
30850 STEPHENSON HWY
MADISON HEIGHTS, MI
US 48071
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OIL CONDITION

Visc @ 40°C	cSt	█ 178	---	---	---
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CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	▲ 1586	---	---	---
Sodium	ppm	█ 43	---	---	---
Potassium	ppm	█ 87	---	---	---



WEAR METALS

Iron	ppm	▲ 4700	---	---	---
Copper	ppm	█ 5	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	● 206	---	---	---
Chromium	ppm	▲ 41	---	---	---
Molybdenum	ppm	█ 5	---	---	---
Nickel	ppm	▲ 12	---	---	---
Titanium	ppm	▲ 12	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 48	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 443	---	---	---
Magnesium	ppm	█ 106	---	---	---
Zinc	ppm	█ 32	---	---	---
Phosphorus	ppm	█ 322	---	---	---
Barium	ppm	█ 3	---	---	---
Boron	ppm	█ 8	---	---	---

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. The oil is no longer serviceable due to the presence of contaminants.

Depot: LEOMAD
Unique No: 11099784
Signed: Jonathan Hester
Report Date: 28 Jun 2024



CONSTRUCTION EQUIPMENT



GRAPHS

