



CONSTRUCTION EQUIPMENT

SW1029638-7 VOLVO EC220EL 314016 - REAR RIGHT FINAL DRIVE



Sample No: VCP440150
Oil Type: GEAR OIL SAE 80W90
Job No: SW1029638-7



SAMPLE INFORMATION

Sample Number	VCP440150	---	---	---
Sample Date	05 Feb 2024	---	---	---
Machine Hours	3247	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

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OIL CONDITION

Visc @ 40°C	cSt	█ 194	---	---	---
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CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	◆ 4024	---	---	---
Sodium	ppm	█ 265	---	---	---
Potassium	ppm	█ 275	---	---	---



WEAR METALS

Iron	ppm	◆ 6799	---	---	---
Copper	ppm	█ 11	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ 1	---	---	---
Aluminum	ppm	▲ 1075	---	---	---
Chromium	ppm	◆ 45	---	---	---
Molybdenum	ppm	█ 3	---	---	---
Nickel	ppm	█ 14	---	---	---
Titanium	ppm	█ 53	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 52	---	---	---
Vanadium	ppm	2	---	---	---



ADDITIVES

Calcium	ppm	█ 690	---	---	---
Magnesium	ppm	█ 193	---	---	---
Zinc	ppm	█ 52	---	---	---
Phosphorus	ppm	█ 819	---	---	---
Barium	ppm	█ 15	---	---	---
Boron	ppm	█ 117	---	---	---

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. 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: VOLV08770
Unique No: 10873847
Signed: Don Baldrige
Report Date: 13 Feb 2024



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

