



CONSTRUCTION EQUIPMENT

SPM580672 MILBURN VOLVO EC300DL 210200 - REAR RIGHT FINAL DRIVE



Sample No: VCP419503
Oil Type: CAT TDTO SAE 50
Job No: SPM580672 MILBURN



SAMPLE INFORMATION

Sample Number	VCP419503	VCP280167	---	---
Sample Date	12 Sep 2023	22 Aug 2020	---	---
Machine Hours	5950	4200	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	SEVERE	SEVERE	---	---

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5000 INDUSTRIAL HWY
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OIL CONDITION

Visc @ 40°C	cSt	█ 188	300	---	---
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CONTAMINATION

Silicon	ppm	█ 282	█ 250	---	---
Sodium	ppm	█ 8	█ 9	---	---
Potassium	ppm	█ 21	█ 23	---	---

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 recommend an early resample to monitor this condition. The iron level has decreased, but is still abnormal. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	▲ 1252	█ 1563	---	---
Copper	ppm	█ 3	█ 3	---	---
Lead	ppm	█ <1	█ <1	---	---
Tin	ppm	█ 0	█ <1	---	---
Aluminum	ppm	▲ 43	▲ 45	---	---
Chromium	ppm	▲ 15	▲ 24	---	---
Molybdenum	ppm	6	█ 3	---	---
Nickel	ppm	█ 2	2	---	---
Titanium	ppm	3	3	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	10	█ 14	---	---
Vanadium	ppm	0	<1	---	---



ADDITIVES

Calcium	ppm	█ 1932	█ 175	---	---
Magnesium	ppm	132	█ 42	---	---
Zinc	ppm	█ 864	█ 79	---	---
Phosphorus	ppm	█ 817	█ 881	---	---
Barium	ppm	0	█ <1	---	---
Boron	ppm	73	█ 132	---	---

Depot: VOLVO8885
Unique No: 10658473
Signed: Don Baldrige
Report Date: 22 Sep 2023



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GRAPHS

