



CONSTRUCTION EQUIPMENT

SPM580672 MILBURN VOLVO EC300DL 210200 - REAR LEFT FINAL DRIVE



Sample No: VCP420576
Oil Type: TDTO FLUID SAE 50
Job No: SPM580672 MILBURN



SAMPLE INFORMATION

Sample Number	VCP420576	VCP280168	---	---
Sample Date	12 Sep 2023	22 Aug 2020	---	---
Machine Hours	5950	4200	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---

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5000 INDUSTRIAL HWY
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F:



OIL CONDITION

Visc @ 40°C	cSt	█ 203	█ 254	---	---
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CONTAMINATION

Silicon	ppm	▲ 91	▲ 97	---	---
Sodium	ppm	█ 1	█ 5	---	---
Potassium	ppm	█ 10	█ 12	---	---

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. Resample at the next service interval to monitor. Chromium and aluminum ppm levels are noted. All other component wear rates are normal. 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.



WEAR METALS

Iron	ppm	█ 293	▲ 566	---	---
Copper	ppm	█ 1	█ 1	---	---
Lead	ppm	█ <1	█ <1	---	---
Tin	ppm	█ 0	█ 0	---	---
Aluminum	ppm	▲ 15	▲ 17	---	---
Chromium	ppm	▲ 13	▲ 21	---	---
Molybdenum	ppm	█ 3	█ 2	---	---
Nickel	ppm	█ <1	█ 1	---	---
Titanium	ppm	█ 2	█ 2	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ 4	█ 7	---	---
Vanadium	ppm	█ 0	█ <1	---	---



ADDITIVES

Calcium	ppm	█ 2101	█ 357	---	---
Magnesium	ppm	█ 52	█ 37	---	---
Zinc	ppm	█ 966	█ 168	---	---
Phosphorus	ppm	█ 860	█ 858	---	---
Barium	ppm	█ 0	█ <1	---	---
Boron	ppm	█ 64	█ 86	---	---

Depot: VOLVO8885
Unique No: 10658466
Signed: Angela Borella
Report Date: 22 Sep 2023



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GRAPHS

