



CONSTRUCTION EQUIPMENT

X48285 VOLVO EC350 310659 - FRONT LEFT FINAL DRIVE



Sample No: VCP435933
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: X48285



SAMPLE INFORMATION

Sample Number	VCP435933	VCP417999	---	---
Sample Date	22 Dec 2023	23 Jul 2023	---	---
Machine Hours	7067	6125	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	N/A	---	---
Sample Status	SEVERE	SEVERE	---	---

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OIL CONDITION

Visc @ 40°C	cSt	█ 134	---	---	---
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CONTAMINATION

Water	%	▲ 0.156	● 1.26	---	---
Silicon	ppm	● 3930	● 4880	---	---
Sodium	ppm	█ <1	█ 16	---	---
Potassium	ppm	█ 38	█ 57	---	---

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 trace of moisture present in the oil. The oil is no longer serviceable due to the presence of contaminants.



WEAR METALS

Iron	ppm	● 10057	● 8867	---	---
Copper	ppm	█ 17	█ 15	---	---
Lead	ppm	█ 0	█ 0	---	---
Tin	ppm	█ 0	█ 2	---	---
Aluminum	ppm	▲ 254	▲ 280	---	---
Chromium	ppm	● 98	● 107	---	---
Molybdenum	ppm	█ 10	█ 16	---	---
Nickel	ppm	█ 7	█ 8	---	---
Titanium	ppm	█ 35	▲ 51	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ 60	█ 68	---	---
Vanadium	ppm	█ 0	█ 1	---	---



ADDITIVES

Calcium	ppm	█ 45	█ 10	---	---
Magnesium	ppm	█ 13	█ 16	---	---
Zinc	ppm	█ 15	█ 5	---	---
Phosphorus	ppm	█ 356	█ 142	---	---
Barium	ppm	█ 4	█ 0	---	---
Boron	ppm	█ 6	█ 3	---	---

Depot: VOLVO6244
Unique No: 10809864
Signed: Jonathan Hester
Report Date: 04 Jan 2024



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GRAPHS

