



CONSTRUCTION EQUIPMENT

X47601 VOLVO EC350 314390 - FRONT RIGHT FINAL DRIVE



Sample No: VCP432825
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: X47601



SAMPLE INFORMATION

Sample Number	VCP432825	---	---	---
Sample Date	13 Sep 2023	---	---	---
Machine Hours	2122	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	SEVERE	---	---	---

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OIL CONDITION

Visc @ 40°C	cSt	▲ 344	---	---	---
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CONTAMINATION

Silicon	ppm	● 4012	---	---	---
Sodium	ppm	■ 59	---	---	---
Potassium	ppm	■ 120	---	---	---



WEAR METALS

Iron	ppm	● 11024	---	---	---
Copper	ppm	■ 21	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ 2	---	---	---
Aluminum	ppm	▲ 397	---	---	---
Chromium	ppm	● 173	---	---	---
Molybdenum	ppm	■ 21	---	---	---
Nickel	ppm	■ 19	---	---	---
Titanium	ppm	■ 38	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ 90	---	---	---
Vanadium	ppm	1	---	---	---



ADDITIVES

Calcium	ppm	■ 137	---	---	---
Magnesium	ppm	■ 56	---	---	---
Zinc	ppm	■ 15	---	---	---
Phosphorus	ppm	■ 374	---	---	---
Barium	ppm	■ 5	---	---	---
Boron	ppm	■ 4	---	---	---

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. The iron and chrome levels are severe. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants.

Depot: VOLVO6244
Unique No: 10659105
Signed: Don Baldridge
Report Date: 23 Sep 2023



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GRAPHS

