



CONSTRUCTION EQUIPMENT

19871 TGP VOLVO EC250EL 310539 - REAR LEFT FINAL DRIVE



Sample No: VCP441551
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: 19871 TGP



SAMPLE INFORMATION

Sample Number	VCP441551	---	---	---
Sample Date	12 Oct 2023	---	---	---
Machine Hours	5406	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

117 - ASCENDUM MACHINERY INC - GREENVILLE
2002 N GREENE ST
GREENVILLE, NC
US 27834
Contact: ALLEN WILLIAMS
allen.williams@ascendummachinery.com
T:
F: (704)494-8197



OIL CONDITION

Visc @ 40°C	cSt	■ 316	---	---	---
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CONTAMINATION

Silicon	ppm	◆ 913	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ 20	---	---	---

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.



WEAR METALS

Iron	ppm	◆ 2720	---	---	---
Copper	ppm	■ 3	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	▲ 138	---	---	---
Chromium	ppm	▲ 18	---	---	---
Molybdenum	ppm	■ 3	---	---	---
Nickel	ppm	■ 3	---	---	---
Titanium	ppm	■ 11	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ 18	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	■ 10	---	---	---
Magnesium	ppm	■ 5	---	---	---
Zinc	ppm	■ 2	---	---	---
Phosphorus	ppm	■ 1002	---	---	---
Barium	ppm	■ <1	---	---	---
Boron	ppm	■ 136	---	---	---

Depot: VOLVO8769
Unique No: 10702428
Signed: Don Baldrige
Report Date: 23 Oct 2023



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GRAPHS

