



CONSTRUCTION EQUIPMENT

19095 GAINES RALEIGH VOLVO EC350EL 310871 - REAR LEFT FINAL DRIVE



Sample No: VCP426884
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: 19095 GAINES RALEIGH



117 - ASCENDUM MACHINERY INC - GREENVILLE
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SAMPLE INFORMATION

Sample Number	VCP426884	---	---	---
Sample Date	08 Jul 2023	---	---	---
Machine Hours	4953	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---



OIL CONDITION

Visc @ 40°C	cSt	▲ 544	---	---	---
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CONTAMINATION

Water	%	▲ 0.278	---	---	---
Silicon	ppm	● 3202	---	---	---
Sodium	ppm	■ 103	---	---	---
Potassium	ppm	■ 290	---	---	---



WEAR METALS

Iron	ppm	● 6735	---	---	---
Copper	ppm	■ 10	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	▲ 900	---	---	---
Chromium	ppm	● 68	---	---	---
Molybdenum	ppm	■ 10	---	---	---
Nickel	ppm	■ 5	---	---	---
Titanium	ppm	44	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ 44	---	---	---
Vanadium	ppm	1	---	---	---



ADDITIVES

Calcium	ppm	■ 82	---	---	---
Magnesium	ppm	■ 64	---	---	---
Zinc	ppm	■ 27	---	---	---
Phosphorus	ppm	■ 924	---	---	---
Barium	ppm	■ 3	---	---	---
Boron	ppm	■ 142	---	---	---

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. There is a light concentration of water present in the oil. 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: VOLVO8769
Unique No: 10552850
Signed: Don Baldrige
Report Date: 14 Jul 2023



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GRAPHS

