



CONSTRUCTION EQUIPMENT

CAVANAGH 375068 VOLVO EC380EL 314111 - REAR RIGHT FINAL DRIVE



Sample No: VCP392469
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: 375068



SAMPLE INFORMATION

Sample Number	VCP392469	---	---	---
Sample Date	13 Aug 2023	---	---	---
Machine Hours	5750	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

STRONGCO EQUIPMENT

54 IBER ROAD
OTTAWA, ON
CA K2S 1E8
Contact: Jason Hiles
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T:
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OIL CONDITION

Visc @ 40°C	cSt	▲ 109	---	---	---
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CONTAMINATION

Silicon	ppm	▲ 1399	---	---	---
Sodium	ppm	■ 93	---	---	---
Potassium	ppm	■ 129	---	---	---



WEAR METALS

PQ		■ 933	---	---	---
Iron	ppm	■ 2573	---	---	---
Copper	ppm	■ 6	---	---	---
Lead	ppm	■ 2	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	▲ 355	---	---	---
Chromium	ppm	▲ 45	---	---	---
Molybdenum	ppm	■ 6	---	---	---
Nickel	ppm	■ 2	---	---	---
Titanium	ppm	▲ 22	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ 22	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	2639	---	---	---
Magnesium	ppm	132	---	---	---
Zinc	ppm	933	---	---	---
Phosphorus	ppm	■ 796	---	---	---
Barium	ppm	■ 5	---	---	---
Boron	ppm	3	---	---	---

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. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. Chromium and titanium ppm levels are abnormal. Aluminum ppm levels are noted. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. High amount of ingressed dirt has caused abrasive wear to the component. Viscosity of sample indicates oil is within SAE 40 range, advise investigate. This plus the additive levels indicates that this is not the same brand, or type of oil as reported. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: SHESTI
Unique No: 5629045
Signed: Kevin Marson
Report Date: 16 Aug 2023



CONSTRUCTION EQUIPMENT



GRAPHS

