



CONSTRUCTION EQUIPMENT

CAVANAGH 394790 VOLVO EC480EL 314289 - REAR LEFT FINAL DRIVE



Sample No: VCP380076
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: 394790



SAMPLE INFORMATION

Sample Number	VCP380076	VCP349512	---	---
Sample Date	14 Feb 2024	16 Oct 2022	---	---
Machine Hours	6034	4032	---	---
Oil Hours	2000	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	SEVERE	---	---

STRONGCO EQUIPMENT

54 IBER ROAD
OTTAWA, ON
CA K2S 1E8
Contact: Daniel Simard
dsimard@strongco.com
T: (613)836-6633
F: (613)836-2614

OIL CONDITION

Visc @ 40°C	cSt	▲ 97.6	■ 154	---	---
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CONTAMINATION

Water	%	■ 0.087	■ 0.066	---	---
Silicon	ppm	■ 466	◆ 701	---	---
Sodium	ppm	■ 30	■ 42	---	---
Potassium	ppm	■ 40	■ 62	---	---

WEAR METALS

PQ		---	■ 731	---	---
Iron	ppm	■ 849	◆ 4725	---	---
Copper	ppm	■ 2	■ 8	---	---
Lead	ppm	■ 0	■ <1	---	---
Tin	ppm	■ 0	■ 0	---	---
Aluminum	ppm	■ 110	▲ 167	---	---
Chromium	ppm	■ 8	◆ 45	---	---
Molybdenum	ppm	■ <1	■ 5	---	---
Nickel	ppm	■ 1	2	---	---
Titanium	ppm	■ 6	10	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	■ 6	▲ 35	---	---
Vanadium	ppm	0	<1	---	---

ADDITIVES

Calcium	ppm	2426	▲ 848	---	---
Magnesium	ppm	■ 50	■ 64	---	---
Zinc	ppm	946	▲ 260	---	---
Phosphorus	ppm	■ 834	▲ 450	---	---
Barium	ppm	■ <1	■ 3	---	---
Boron	ppm	6	▲ 5	---	---

Diagnosis

Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. The fluid was specified as VOLVO PREMIUM GEAR OIL 80W-90 GL-5, however, a fluid match indicates that this fluid is SAE 40 Transmission/Drive Train Oil. Please confirm the oil type and grade on your next sample. All component wear rates are normal. The water content is negligible. There is no indication of any contamination in the oil. 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 condition of the oil is acceptable for the time in service.

Depot: SHESTI
Unique No: 5734305
Signed: Kevin Marson
Report Date: 23 Feb 2024



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GRAPHS

