



CONSTRUCTION EQUIPMENT

CAVANAGH 394790 VOLVO EC480EL 314289 - REAR RIGHT FINAL DRIVE



Sample No: VCP380069
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: 394790



SAMPLE INFORMATION

Sample Number	VCP380069	VCP352015	---	---
Sample Date	14 Feb 2024	16 Oct 2022	---	---
Machine Hours	6034	4032	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Chngd	Changed	---	---
Sample Status	ABNORMAL	SEVERE	---	---

STRONGCO EQUIPMENT

54 IBER ROAD
 OTTAWA, ON
 CA K2S 1E8
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OIL CONDITION

Visc @ 40°C	cSt	▲ 101	■ 152	---	---
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CONTAMINATION

Water	%	NEG	■ 0.053	---	---
Silicon	ppm	■ 239	● 602	---	---
Sodium	ppm	■ 15	■ 37	---	---
Potassium	ppm	■ 22	■ 52	---	---



WEAR METALS

PQ		---	● 1892	---	---
Iron	ppm	■ 486	● 4112	---	---
Copper	ppm	■ 1	■ 8	---	---
Lead	ppm	■ <1	■ <1	---	---
Tin	ppm	■ 0	■ 0	---	---
Aluminum	ppm	■ 58	▲ 147	---	---
Chromium	ppm	■ 4	● 36	---	---
Molybdenum	ppm	■ <1	■ 4	---	---
Nickel	ppm	■ <1	1	---	---
Titanium	ppm	■ 3	9	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	■ 4	▲ 30	---	---
Vanadium	ppm	0	<1	---	---



ADDITIVES

Calcium	ppm	2400	▲ 649	---	---
Magnesium	ppm	■ 29	■ 45	---	---
Zinc	ppm	957	▲ 233	---	---
Phosphorus	ppm	■ 842	▲ 431	---	---
Barium	ppm	■ <1	■ 3	---	---
Boron	ppm	5	▲ 6	---	---

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. 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: 5734304
Signed: Kevin Marson
Report Date: 22 Feb 2024



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

