



CONSTRUCTION EQUIPMENT

8000379768 VOLVO EC300EL 316765 - REAR RIGHT FINAL DRIVE



Sample No: VCP394313
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: 8000379768



SAMPLE INFORMATION

Sample Number	VCP394313	---	---	---
Sample Date	16 Oct 2023	---	---	---
Machine Hours	2027	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

STRONGCO EQUIP (AB)
 6 - 38403 BURNT LAKE TRAIL
 RED DEER COUNTY, AB
 CA T4S 2L4
 Contact: Perry Doyle
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OIL CONDITION

Visc @ 40°C	cSt	█ 196	---	---	---
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CONTAMINATION

Silicon	ppm	▲ 1407	---	---	---
Sodium	ppm	█ 27	---	---	---
Potassium	ppm	█ 62	---	---	---



WEAR METALS

PQ		▲ 3081	---	---	---
Iron	ppm	▲ 5112	---	---	---
Copper	ppm	█ 7	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	▲ 183	---	---	---
Chromium	ppm	▲ 61	---	---	---
Molybdenum	ppm	█ 5	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	▲ 11	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	47	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 347	---	---	---
Magnesium	ppm	82	---	---	---
Zinc	ppm	15	---	---	---
Phosphorus	ppm	287	---	---	---
Barium	ppm	█ 4	---	---	---
Boron	ppm	4	---	---	---

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. PQ levels are abnormal. Chromium and iron ppm levels are abnormal. Aluminum and titanium ppm levels are noted. Gear wear is indicated. The high ferrous density (PQ) index indicates that abnormal wear is occurring. 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. Additive levels indicate the addition of a different brand, or type of oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: VOLVO9652
Unique No: 5659778
Signed: Kevin Marson
Report Date: 22 Oct 2023



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GRAPHS

