



CONSTRUCTION EQUIPMENT

8000383057 VOLVO EC300EL 315097 - REAR LEFT FINAL DRIVE



Sample No: VCP393019
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: 8000383057



SAMPLE INFORMATION

Sample Number	VCP393019	---	---	---
Sample Date	20 Nov 2023	---	---	---
Machine Hours	3944	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

STRONGCO EQUIP (AB)
6 - 38403 BURNT LAKE TRAIL
RED DEER COUNTY, AB
CA T4S 2L4
Contact: Joseph St Peter
jstpeter@strongco.com
T: (403)346-3473
F: (403)346-3487



OIL CONDITION

Visc @ 40°C	cSt	█ 165	---	---	---
-------------	-----	-------	-----	-----	-----



CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	▲ 1573	---	---	---
Sodium	ppm	█ 28	---	---	---
Potassium	ppm	█ 67	---	---	---



WEAR METALS

PQ		● 3143	---	---	---
Iron	ppm	● 5975	---	---	---
Copper	ppm	█ 13	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	▲ 181	---	---	---
Chromium	ppm	● 61	---	---	---
Molybdenum	ppm	█ 6	---	---	---
Nickel	ppm	█ 2	---	---	---
Titanium	ppm	▲ 11	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	52	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 419	---	---	---
Magnesium	ppm	93	---	---	---
Zinc	ppm	█ 22	---	---	---
Phosphorus	ppm	█ 1235	---	---	---
Barium	ppm	█ <1	---	---	---
Boron	ppm	█ 69	---	---	---

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 recommend an early resample to monitor this condition. Chromium and iron ppm levels are severe. PQ levels are severe. Aluminum ppm levels are noted. Titanium ppm levels are marginal. Gear wear is indicated. The very high ferrous density (PQ) index indicates that severe 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. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

Depot: VOLVO9652
Unique No: 5683321
Signed: Kevin Marson
Report Date: 23 Nov 2023



CONSTRUCTION EQUIPMENT



GRAPHS

