



CONSTRUCTION EQUIPMENT

A68736 VOLVO EC140BLC 12234 - FRONT LEFT FINAL DRIVE



Sample No: VCP437235
Oil Type: GEAR OIL SAE 85W140
Job No: A68736



CHADWICK-BAROSS INC MAIN
 PO BOX 4500
 WESTBROOK, ME
 US 04098
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SAMPLE INFORMATION

Sample Number	VCP437235	---	---	---
Sample Date	23 Apr 2024	---	---	---
Machine Hours	5557	---	---	---
Oil Hours	5557	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---



OIL CONDITION

Visc @ 40°C	cSt	■ 304	---	---	---
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CONTAMINATION

Water	%	▲ 0.275	---	---	---
Silicon	ppm	▲ 1142	---	---	---
Sodium	ppm	■ 62	---	---	---
Potassium	ppm	■ 90	---	---	---



WEAR METALS

Iron	ppm	▲ 2034	---	---	---
Copper	ppm	■ 5	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	● 237	---	---	---
Chromium	ppm	▲ 47	---	---	---
Molybdenum	ppm	■ 2	---	---	---
Nickel	ppm	■ 8	---	---	---
Titanium	ppm	▲ 16	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ 19	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	■ 66	---	---	---
Magnesium	ppm	■ 23	---	---	---
Zinc	ppm	■ 28	---	---	---
Phosphorus	ppm	■ 1043	---	---	---
Barium	ppm	■ 4	---	---	---
Boron	ppm	■ 173	---	---	---

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 advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a light concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.

Depot: VOLVO0006
Unique No: 11004016
Signed: Jonathan Hester
Report Date: 01 May 2024



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GRAPHS

