



CONSTRUCTION EQUIPMENT

10075 ENVIROVANTAGE VOLVO EC380E 314814 - REAR LEFT FINAL DRIVE



Sample No: VCP422154
Oil Type: CHEVRON DELO GEAR ESI OIL 85W140
Job No: 10075 ENVIROVANTAGE



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SAMPLE INFORMATION

Sample Number	VCP422154	VCP360331	---	---
Sample Date	13 Dec 2023	18 Mar 2022	---	---
Machine Hours	2128	607	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	SEVERE	ABNORMAL	---	---



OIL CONDITION

Visc @ 40°C	cSt	█ 297	179	---	---
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CONTAMINATION

Water	%	NEG	NEG	---	---
Silicon	ppm	█ 1353	▲ 85	---	---
Sodium	ppm	█ 10	█ 2	---	---
Potassium	ppm	█ 43	█ 3	---	---



WEAR METALS

Iron	ppm	█ 4058	█ 136	---	---
Copper	ppm	█ 8	█ 0	---	---
Lead	ppm	█ 1	█ 0	---	---
Tin	ppm	█ 0	█ 0	---	---
Aluminum	ppm	▲ 199	▲ 26	---	---
Chromium	ppm	█ 42	█ 4	---	---
Molybdenum	ppm	█ 5	<1	---	---
Nickel	ppm	█ 5	0	---	---
Titanium	ppm	█ 20	2	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	█ 33	3	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	█ 66	14	---	---
Magnesium	ppm	█ 32	3	---	---
Zinc	ppm	█ 13	0	---	---
Phosphorus	ppm	█ 979	375	---	---
Barium	ppm	█ 11	3	---	---
Boron	ppm	█ 125	9	---	---

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. The oil is no longer serviceable due to the presence of contaminants.

Depot: VOLV00150
Unique No: 10794920
Signed: Jonathan Hester
Report Date: 21 Dec 2023



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GRAPHS

