



CONSTRUCTION EQUIPMENT

10160 ENVIROVANTAGRE VOLVO EC380E 3 14814 - REAR RIGHT FINAL DRIVE



Sample No: VCP409447
Oil Type: CHEVRON DELO GEAR ESI OIL 85W140
Job No: 10160 ENVIROVANTAGRE



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SAMPLE INFORMATION

Sample Number	VCP409447	VCP413933	VCP360329	---
Sample Date	03 Jan 2024	13 Dec 2023	18 Mar 2022	---
Machine Hours	2142	2128	607	---
Oil Hours	0	0	0	---
Oil Changed	Not Chngd	Changed	Changed	---
Sample Status	ABNORMAL	SEVERE	ABNORMAL	---



OIL CONDITION

Visc @ 40°C	cSt	321	289	178	---
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CONTAMINATION

Water	%	NEG	NEG	NEG	---
Silicon	ppm	▲ 286	1225	▲ 102	---
Sodium	ppm	■ 0	5	2	---
Potassium	ppm	■ 12	34	4	---



WEAR METALS

Iron	ppm	▲ 981	3931	135	---
Copper	ppm	■ 2	7	0	---
Lead	ppm	■ <1	1	0	---
Tin	ppm	■ 0	0	0	---
Aluminum	ppm	▲ 35	157	▲ 29	---
Chromium	ppm	■ 10	41	5	---
Molybdenum	ppm	■ 2	5	<1	---
Nickel	ppm	■ 1	4	0	---
Titanium	ppm	4	18	2	---
Silver	ppm	0	0	<1	---
Manganese	ppm	■ 8	32	3	---
Vanadium	ppm	0	<1	0	---



ADDITIVES

Calcium	ppm	■ 16	51	16	---
Magnesium	ppm	■ 6	25	3	---
Zinc	ppm	■ 0	10	0	---
Phosphorus	ppm	■ 927	823	354	---
Barium	ppm	■ 8	11	2	---
Boron	ppm	■ 172	84	8	---

Diagnosis

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.

Depot: VOLV00150
Unique No: 10820287
Signed: Jonathan Hester
Report Date: 10 Jan 2024



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GRAPHS

