



CONSTRUCTION EQUIPMENT

SW1026683 MGC VOLVO ECR40D 14219 - REAR RIGHT FINAL DRIVE



Sample No: VCP405401
Oil Type: GEAR OIL SAE 80W90
Job No: SW1026683 MGC



SAMPLE INFORMATION

Sample Number	VCP405401	---	---	---
Sample Date	22 Nov 2023	---	---	---
Machine Hours	950	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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OIL CONDITION

Visc @ 40°C	cSt	█ 135	---	---	---
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CONTAMINATION

Water	%	█ 0.099	---	---	---
Silicon	ppm	▲ 93	---	---	---
Sodium	ppm	█ 1	---	---	---
Potassium	ppm	█ 3	---	---	---

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. Resample at the next service interval to monitor. Gear wear is indicated. All other metal levels are typical for a new component breaking in. 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.



WEAR METALS

Iron	ppm	▲ 683	---	---	---
Copper	ppm	█ 3	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	▲ 19	---	---	---
Chromium	ppm	█ 9	---	---	---
Molybdenum	ppm	█ 2	---	---	---
Nickel	ppm	█ 3	---	---	---
Titanium	ppm	1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 6	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 433	---	---	---
Magnesium	ppm	█ 1	---	---	---
Zinc	ppm	█ 221	---	---	---
Phosphorus	ppm	█ 1001	---	---	---
Barium	ppm	█ 2	---	---	---
Boron	ppm	█ 17	---	---	---

Depot: VOLVO6174
Unique No: 10768657
Signed: Don Baldrige
Report Date: 06 Dec 2023



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VOLVO GRAPHS

