



CONSTRUCTION EQUIPMENT

SW1027501 VOLVO ECR145E 311495 - REAR RIGHT FINAL DRIVE



Sample No: VCP435881
Oil Type: GEAR OIL SAE 80W90
Job No: SW1027501



SAMPLE INFORMATION

Sample Number	VCP435881	VCP248838	---	---
Sample Date	07 Dec 2023	23 May 2019	---	---
Machine Hours	2111	440	---	---
Oil Hours	0	440	---	---
Oil Changed	Changed	Not Chngd	---	---
Sample Status	ABNORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 40°C	cSt	█ 135	█ 140	---	---
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CONTAMINATION

Water	%	NEG	NEG	---	---
Silicon	ppm	▲ 151	█ 13	---	---
Sodium	ppm	█ 6	█ 4	---	---
Potassium	ppm	█ 7	█ 8	---	---

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 component wear rates are normal. 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	▲ 726	█ 221	---	---
Copper	ppm	█ 2	█ 1	---	---
Lead	ppm	█ 0	█ <1	---	---
Tin	ppm	█ 0	█ 0	---	---
Aluminum	ppm	▲ 26	█ 2	---	---
Chromium	ppm	▲ 11	█ 5	---	---
Molybdenum	ppm	█ <1	0	---	---
Nickel	ppm	█ 1	<1	---	---
Titanium	ppm	1	<1	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	█ 9	6	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	█ 97	26	---	---
Magnesium	ppm	█ 14	1	---	---
Zinc	ppm	█ 31	32	---	---
Phosphorus	ppm	█ 919	534	---	---
Barium	ppm	█ 0	2	---	---
Boron	ppm	█ 125	4	---	---

Depot: VOLVO8770
Unique No: 10791588
Signed: Don Baldrige
Report Date: 19 Dec 2023



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GRAPHS

