



CONSTRUCTION EQUIPMENT

SPM580911 VOLVO EC250ELR 314201 - LEFT FINAL DRIVE



Sample No: VCP423126
Oil Type: GEAR OIL SAE 75W80
Job No: SPM580911



SAMPLE INFORMATION

Sample Number	VCP423126	VCP404373	VCP357355	---
Sample Date	21 Jul 2023	17 Jan 2023	02 Apr 2022	---
Machine Hours	2533	2150	527	---
Oil Hours	0	0	0	---
Oil Changed	Not Chngd	Not Chngd	Not Chngd	---
Sample Status	SEVERE	SEVERE	ABNORMAL	---

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OIL CONDITION

Visc @ 40°C	cSt	157	149	█ 171	---
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CONTAMINATION

Water	%	---	---	▲ 0.171	---
Silicon	ppm	■ 878	■ 589	█ 24	---
Sodium	ppm	█ 20	█ 12	█ 8	---
Potassium	ppm	█ 79	█ 56	█ 5	---

Diagnosis

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. 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.



WEAR METALS

Iron	ppm	■ 2066	▲ 1475	█ 486	---
Copper	ppm	█ 4	█ 3	█ <1	---
Lead	ppm	█ <1	█ <1	█ 0	---
Tin	ppm	█ <1	█ 0	█ <1	---
Aluminum	ppm	▲ 186	▲ 134	█ 4	---
Chromium	ppm	▲ 24	▲ 20	▲ 12	---
Molybdenum	ppm	█ 2	█ 2	█ 2	---
Nickel	ppm	█ 4	█ 2	<1	---
Titanium	ppm	█ 11	7	<1	---
Silver	ppm	0	0	<1	---
Manganese	ppm	█ 18	█ 14	█ 9	---
Vanadium	ppm	1	<1	0	---



ADDITIVES

Calcium	ppm	█ 616	█ 305	█ 100	---
Magnesium	ppm	█ 245	█ 128	█ 13	---
Zinc	ppm	█ 28	█ 26	█ 22	---
Phosphorus	ppm	█ 1500	█ 1740	█ 376	---
Barium	ppm	█ 0	█ 2	█ 0	---
Boron	ppm	█ 100	█ 115	█ 1	---

Depot: BELBOU
Unique No: 10586815
Signed: Don Baldrige
Report Date: 04 Aug 2023



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GRAPHS

