



CONSTRUCTION EQUIPMENT

SPM675624 VOLVO EC250ELR 314201 - LEFT FINAL DRIVE



Sample No: VCP444438
Oil Type: GEAR OIL SAE 80W90
Job No: SPM675624



SAMPLE INFORMATION

Sample Number	VCP444438	VCP423126	VCP404373	VCP357355
Sample Date	04 Mar 2024	21 Jul 2023	17 Jan 2023	02 Apr 2022
Machine Hours	3690	2533	2150	527
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	ABNORMAL	SEVERE	SEVERE	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	157	157	149	171
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CONTAMINATION

Water	%	NEG	NEG	NEG	▲ 0.171
Silicon	ppm	▲ 139	▲ 878	▲ 589	■ 24
Sodium	ppm	■ 3	■ 20	■ 12	■ 8
Potassium	ppm	■ 8	■ 79	■ 56	■ 5

Diagnosis

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. All 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	■ 463	▲ 2066	▲ 1475	■ 486
Copper	ppm	■ <1	■ 4	■ 3	■ <1
Lead	ppm	■ <1	■ <1	■ <1	■ 0
Tin	ppm	■ 0	■ <1	■ 0	■ <1
Aluminum	ppm	● 32	● 186	● 134	■ 4
Chromium	ppm	■ 9	▲ 24	▲ 20	▲ 12
Molybdenum	ppm	■ 0	■ 2	■ 2	■ 2
Nickel	ppm	■ 0	■ 4	■ 2	<1
Titanium	ppm	2	■ 11	7	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	■ 16	■ 18	■ 14	■ 9
Vanadium	ppm	0	1	<1	0



ADDITIVES

Calcium	ppm	■ 429	■ 616	■ 305	■ 100
Magnesium	ppm	■ 67	■ 245	■ 128	■ 13
Zinc	ppm	■ 103	■ 28	■ 26	■ 22
Phosphorus	ppm	■ 423	■ 1500	■ 1740	■ 376
Barium	ppm	■ 0	■ 0	■ 2	■ 0
Boron	ppm	■ 4	■ 100	■ 115	■ 1

Depot: BELBOU
Unique No: 10930031
Signed: Don Baldrige
Report Date: 20 Mar 2024



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GRAPHS

