



CONSTRUCTION EQUIPMENT

SW0069350 VOLVO EC300ELR 311843 - REAR LEFT FINAL DRIVE



Sample No: VCP430875
Oil Type: COWIN 80W90
Job No: SW0069350



SAMPLE INFORMATION

Sample Number	VCP430875	VCP415153	VCP421721	VCP421748
Sample Date	09 Feb 2024	06 Oct 2023	22 Sep 2023	21 Apr 2023
Machine Hours	5843	5383	5320	4800
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	NORMAL	SEVERE	SEVERE

SAIIA CONSTRUCTION LLC

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OIL CONDITION

Visc @ 40°C	cSt	130	138	143	133
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	▲ 186	■ 48	■ 226	■ 404
Sodium	ppm	■ 0	■ 1	■ 3	■ 8
Potassium	ppm	■ 4	■ 2	■ 8	■ 9



WEAR METALS

Iron	ppm	■ 499	■ 296	▲ 1434	▲ 1174
Copper	ppm	■ 2	■ 1	■ 3	■ 3
Lead	ppm	■ 0	■ 0	■ 0	■ 0
Tin	ppm	■ 0	■ 0	■ 0	■ 0
Aluminum	ppm	▲ 36	■ 7	▲ 38	▲ 76
Chromium	ppm	■ 6	■ 2	▲ 11	▲ 15
Molybdenum	ppm	17	■ 16	6	7
Nickel	ppm	■ <1	■ 0	■ 1	■ <1
Titanium	ppm	4	1	4	7
Silver	ppm	0	0	0	0
Manganese	ppm	3	■ 2	9	10
Vanadium	ppm	0	<1	<1	<1



ADDITIVES

Calcium	ppm	232	■ 174	103	177
Magnesium	ppm	77	70	27	42
Zinc	ppm	157	■ 141	61	81
Phosphorus	ppm	1118	■ 984	974	928
Barium	ppm	12	■ 0	0	0
Boron	ppm	134	■ 135	139	149

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. 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.

Depot: SAIBIR
Unique No: 10876575
Signed: Jonathan Hester
Report Date: 16 Feb 2024



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VOLVO GRAPHS

