



CONSTRUCTION EQUIPMENT

24745 VOLVO EC300E 311876 - REAR LEFT FINAL DRIVE



Sample No: VCP440961
Oil Type: VOLVO SUPER GEAR OIL 75W-80-GO102
Job No: 24745



SAMPLE INFORMATION

Sample Number	VCP440961	VCP416636	VCP380787	VCP383692
Sample Date	05 Jan 2024	20 Jun 2023	19 Jan 2023	13 Dec 2022
Machine Hours	6600	6086	5691	5659
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Not Changd	N/A
Sample Status	SEVERE	SEVERE	ABNORMAL	SEVERE

SAIIA CONSTRUCTION LLC

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OIL CONDITION

Visc @ 40°C	cSt	▲ 316	■ 306	283	▲ 285
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CONTAMINATION

Water	%	NEG	NEG	■ 0.114	NEG
Silicon	ppm	▲ 531	▲ 365	▲ 234	▲ 415
Sodium	ppm	■ <1	■ 5	■ 3	■ 5
Potassium	ppm	■ 19	■ 13	■ 11	■ 13



WEAR METALS

Iron	ppm	▲ 1246	▲ 626	■ 255	▲ 583
Copper	ppm	■ 3	■ 2	■ <1	■ 1
Lead	ppm	■ 0	■ <1	■ 0	■ 0
Tin	ppm	■ 0	■ 0	■ <1	■ <1
Aluminum	ppm	▲ 155	▲ 105	▲ 115	▲ 120
Chromium	ppm	▲ 17	▲ 11	■ 8	▲ 12
Molybdenum	ppm	■ 3	3	3	4
Nickel	ppm	■ 2	1	■ <1	<1
Titanium	ppm	■ 12	8	6	9
Silver	ppm	■ 0	0	0	0
Manganese	ppm	■ 11	7	5	8
Vanadium	ppm	■ <1	<1	<1	<1



ADDITIVES

Calcium	ppm	■ 406	371	453	607
Magnesium	ppm	■ 53	75	96	107
Zinc	ppm	■ 54	68	89	89
Phosphorus	ppm	■ 1069	998	910	959
Barium	ppm	■ 1	0	1	0
Boron	ppm	■ 157	159	120	131

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. 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 viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants.

Depot: SAIBIR
Unique No: 10842659
Signed: Don Baldrige
Report Date: 23 Jan 2024



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

