



CONSTRUCTION EQUIPMENT

580566 VOLVO A30G 752343 - DROP BOX



Sample No: VCP411833
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: 580566



SAMPLE INFORMATION

Sample Number	VCP411833	VCP379669	VCP354001	VCP332725
Sample Date	21 Jul 2023	26 Jan 2023	05 Aug 2022	09 Mar 2022
Machine Hours	3990	3025	2078	1178
Oil Hours	3990	1500	1500	1178
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL

RIPA AND ASSOCIATES

10149 FISHER AVENUE
TAMPA, FL
US 33619
Contact: ROBERT TURNER
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T:
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OIL CONDITION

Visc @ 40°C	cSt	▲ 53.4	▲ 84.5	▲ 89.4	▲ 90.6
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CONTAMINATION

Silicon	ppm	▲ 61	■ 6	■ 7	■ 5
Sodium	ppm	■ 12	■ 2	■ 1	■ <1
Potassium	ppm	■ 2	■ 2	■ 2	■ <1



WEAR METALS

Iron	ppm	■ 240	■ 210	■ 379	■ 321
Copper	ppm	■ 2	▲ 82	▲ 63	▲ 50
Lead	ppm	■ <1	■ 0	■ 0	■ <1
Tin	ppm	■ 0	■ 4	■ 3	■ 2
Aluminum	ppm	▲ 17	■ <1	■ 1	■ 1
Chromium	ppm	■ 3	■ 3	■ 6	■ 6
Molybdenum	ppm	■ 6	■ 8	■ 8	■ 8
Nickel	ppm	■ 1	■ 2	■ 5	■ 3
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	■ 7	■ 8	■ 11	■ 11
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	■ 60	■ 858	■ 666	■ 686
Magnesium	ppm	■ 2	■ 5	■ 5	■ 5
Zinc	ppm	■ 71	■ 360	■ 300	■ 275
Phosphorus	ppm	■ 1924	■ 1229	■ 1362	■ 1333
Barium	ppm	■ 2	■ 3	■ 2	■ 0
Boron	ppm	■ 209	■ 189	■ 250	■ 248

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 oil viscosity is lower than normal. Confirm oil type.

Depot: RIPTAM
Unique No: 10602485
Signed: Don Baldrige
Report Date: 14 Aug 2023



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GRAPHS

