



CONSTRUCTION EQUIPMENT

VOLVO A45G 352969 - BOGIE/CENTER AXLE



Sample No: VCP405830
Oil Type: GEAR OIL SAE 80W90
Job No:



SAMPLE INFORMATION

Sample Number	VCP405830	VCP419124	VCP403248	VCP367316
Sample Date	19 Sep 2023	21 Jun 2023	24 Jan 2023	30 Sep 2022
Machine Hours	2491	2003	1469	975
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	ATTENTION	ATTENTION	ATTENTION	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	▲ 50.5	▲ 50.3	▲ 51.16	■ 150
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CONTAMINATION

Silicon	ppm	■ 5	■ 4	■ 2	■ 2
Sodium	ppm	■ 2	■ 3	■ 1	■ 2
Potassium	ppm	■ 3	■ 4	■ 3	■ 1

Diagnosis
 No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. Confirm oil type.



WEAR METALS

Iron	ppm	■ 278	■ 220	■ 58	■ 86
Copper	ppm	■ 2	■ 2	■ 1	■ <1
Lead	ppm	■ 0	■ 0	■ <1	■ 0
Tin	ppm	■ 0	■ 0	■ <1	■ 0
Aluminum	ppm	■ 0	■ 3	■ <1	■ 0
Chromium	ppm	■ 4	■ 3	■ <1	■ <1
Molybdenum	ppm	■ 13	■ 12	■ 8	■ 9
Nickel	ppm	■ 1	■ 1	■ <1	■ <1
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	1
Manganese	ppm	■ 12	■ 10	■ 5	■ 6
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	■ 128	■ 147	■ 116	■ 110
Magnesium	ppm	■ 2	■ 4	■ 2	■ 0
Zinc	ppm	■ 64	■ 68	■ 59	■ 22
Phosphorus	ppm	■ 2337	■ 2372	■ 2358	■ 2389
Barium	ppm	■ 0	■ 0	■ <1	■ 0
Boron	ppm	■ 245	■ 254	■ 263	■ 273

Depot: SAIBIR
Unique No: 10662684
Signed: Doug Bogart
Report Date: 27 Sep 2023



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GRAPHS

