



CONSTRUCTION EQUIPMENT

VOLVO A45G 352704 - BOGIE/CENTER AXLE



Sample No: VCP431884
Oil Type: GEAR OIL SAE 80W90
Job No:



SAMPLE INFORMATION

Sample Number	VCP431884	VCP389229	VCP402876	VCP396646
Sample Date	06 Nov 2023	17 Jul 2023	27 Apr 2023	08 Feb 2023
Machine Hours	4902	4405	3920	3450
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	ATTENTION	ABNORMAL	NORMAL	ATTENTION

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OIL CONDITION

Visc @ 40°C	cSt	▲ 289	▲ 296	48.9	▲ 49.9
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	■ 4	■ 6	■ 3	■ 4
Sodium	ppm	■ <1	■ <1	■ 0	■ 2
Potassium	ppm	■ 0	■ 0	■ 3	■ 2

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 higher than normal. Confirm oil type.



WEAR METALS

Iron	ppm	■ 44	■ 173	■ 177	■ 158
Copper	ppm	■ <1	■ <1	■ 3	■ 3
Lead	ppm	■ 0	■ 0	■ 0	■ 0
Tin	ppm	■ 0	■ 0	■ 0	■ 0
Aluminum	ppm	■ <1	■ 0	■ 0	■ 0
Chromium	ppm	■ <1	■ 2	■ 2	■ 2
Molybdenum	ppm	■ 1	■ 3	■ 4	■ 3
Nickel	ppm	■ <1	■ <1	■ <1	■ <1
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	■ 2	■ 4	■ 7	■ 7
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	■ 78	■ 79	■ 124	■ 129
Magnesium	ppm	■ 21	■ 19	■ 1	■ 2
Zinc	ppm	■ 48	■ 56	■ 60	■ 62
Phosphorus	ppm	■ 1076	■ 1048	■ 2320	■ 2244
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 193	■ 208	■ 253	■ 232

Depot: SAIBIR
Unique No: 10749077
Signed: Don Baldrige
Report Date: 20 Nov 2023



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GRAPHS

