



CONSTRUCTION EQUIPMENT

SWO-064854 VOLVO A45G 352702 - FRONT AXLE



Sample No: VCP427478
Oil Type: GEAR OIL SAE 80W90
Job No: SWO-064854



SAMPLE INFORMATION

Sample Number	VCP427478	VCP423804	VCP393935	VCP391129
Sample Date	15 Aug 2023	18 May 2023	20 Dec 2022	23 Sep 2022
Machine Hours	3389	2923	2406	1971
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	NORMAL	NORMAL	ATTENTION	ATTENTION

SAIIA CONSTRUCTION LLC

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OIL CONDITION

Visc @ 40°C	cSt	49.6	49.9	▲ 49.7	▲ 49.9
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CONTAMINATION

Silicon	ppm	■ 4	■ 5	■ 3	■ 8
Sodium	ppm	■ <1	■ 2	■ <1	■ <1
Potassium	ppm	■ 3	■ 4	■ 3	■ 5



WEAR METALS

Iron	ppm	■ 176	■ 356	■ 101	■ 451
Copper	ppm	■ 1	■ 2	■ 1	■ 2
Lead	ppm	■ 0	■ 0	■ 0	■ <1
Tin	ppm	■ <1	■ 0	■ 0	■ 0
Aluminum	ppm	■ 1	■ 0	■ 0	■ 1
Chromium	ppm	■ 2	■ 5	■ 1	■ 6
Molybdenum	ppm	■ 4	■ 11	■ 2	■ 13
Nickel	ppm	■ <1	■ 1	■ <1	■ 0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	■ 7	■ 11	■ 4	■ 14
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	■ 96	■ 96	■ 108	■ 134
Magnesium	ppm	■ <1	■ 2	■ 2	■ 2
Zinc	ppm	■ 43	■ 37	■ 42	■ 55
Phosphorus	ppm	■ 2472	■ 2434	■ 2308	■ 2804
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 232	■ 222	■ 198	■ 244

Diagnosis

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 condition of the oil is acceptable for the time in service.

Depot: SAIBIR
Unique No: 10617650
Signed: Jonathan Hester
Report Date: 25 Aug 2023



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GRAPHS

