



CONSTRUCTION EQUIPMENT

SWO-064854 VOLVO A45G 352702 - REAR AXLE



Sample No: VCP413519
Oil Type: GEAR OIL SAE 80W90
Job No: SWO-064854



SAMPLE INFORMATION

Sample Number	VCP413519	VCP408950	VCP393662	VCP391128
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

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OIL CONDITION

Visc @ 40°C	cSt	50.1	50.4	▲ 50.4	▲ 49.9
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CONTAMINATION

Silicon	ppm	■ 3	■ 5	■ 3	■ 7
Sodium	ppm	■ 1	■ 2	■ 1	■ <1
Potassium	ppm	■ 2	■ 4	■ 3	■ 5

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.



WEAR METALS

Iron	ppm	■ 128	■ 257	■ 52	■ 256
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	■ 4	■ <1	■ 4
Molybdenum	ppm	■ 4	■ 11	■ 3	■ 12
Nickel	ppm	■ <1	■ <1	■ 0	■ 0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	■ 6	■ 10	■ 3	■ 10
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	■ 129	■ 140	■ 110	■ 133
Magnesium	ppm	■ 0	■ 1	■ 2	■ 1
Zinc	ppm	■ 54	■ 51	■ 31	■ 47
Phosphorus	ppm	■ 2506	■ 2443	■ 2374	■ 2751
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 276	■ 244	■ 224	■ 263

Depot: SAIBIR
Unique No: 10617652
Signed: Jonathan Hester
Report Date: 25 Aug 2023



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GRAPHS

