



CONSTRUCTION EQUIPMENT

SWO-067073 VOLVO A45G 352702 - BOGIE/CENTER AXLE



Sample No: VCP428887
Oil Type: GEAR OIL SAE 80W90
Job No: SWO-067073



SAMPLE INFORMATION

Sample Number	VCP428887	VCP413518	VCP408937	VCP393941
Sample Date	07 Nov 2023	15 Aug 2023	18 May 2023	20 Dec 2022
Machine Hours	3950	3389	2923	2406
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	ABNORMAL	NORMAL	NORMAL	ABNORMAL

SAIIA CONSTRUCTION LLC

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OIL CONDITION

Visc @ 40°C	cSt	49.3	49.2	49.4	▲ 49.5
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CONTAMINATION

Silicon	ppm	■ 6	■ 4	■ 5	■ 3
Sodium	ppm	■ 1	■ 1	■ 2	■ 1
Potassium	ppm	■ 4	■ 3	■ 3	■ 2



WEAR METALS

Iron	ppm	■ 204	■ 145	■ 266	■ 57
Copper	ppm	■ 1	■ 1	■ 2	■ 1
Lead	ppm	■ <1	■ 0	■ 0	■ 0
Tin	ppm	■ <1	■ <1	■ 0	■ 0
Aluminum	ppm	■ 0	■ <1	■ 0	■ 0
Chromium	ppm	■ 2	■ 2	■ 4	■ <1
Molybdenum	ppm	■ 3	■ 2	■ 5	■ 1
Nickel	ppm	■ <1	■ <1	■ <1	■ <1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	■ 11	■ 8	■ 12	■ 3
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	■ 140	■ 148	■ 151	■ 120
Magnesium	ppm	■ 1	■ 0	■ 2	■ 2
Zinc	ppm	■ 68	■ 64	■ 53	■ 32
Phosphorus	ppm	■ 2346	■ 2503	■ 2517	■ 2308
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 218	■ 273	■ 247	■ 214

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of visible silt present in the sample. The condition of the oil is acceptable for the time in service.

Depot: SAIBIR
Unique No: 10739709
Signed: Jonathan Hester
Report Date: 15 Nov 2023



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VOLVO GRAPHS

