



CONSTRUCTION EQUIPMENT

VOLVO A45G 342095 - REAR AXLE



Sample No: VCP414363
Oil Type: GEAR OIL SAE 80W90
Job No:



SAMPLE INFORMATION

Sample Number	VCP414363	VCP402772	VCP384270	VCP365248
Sample Date	26 Oct 2023	02 May 2023	13 Dec 2022	18 Aug 2022
Machine Hours	8727	7961	7510	6994
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	ATTENTION	ATTENTION	ATTENTION	NORMAL

SAIIA CONSTRUCTION LLC
 4400 LEWISBURG RD
 BIRMINGHAM, AL
 US 35207
 Contact: STEPHANI BRITTON
 sbritton@saiia.com;doug.bogart@wearcheck.com
 T: (205)943-2268
 F: (205)943-2269



OIL CONDITION

Visc @ 40°C	cSt	▲ 302	▲ 301	▲ 301	■ 139
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CONTAMINATION

Silicon	ppm	■ 2	■ 2	■ <1	■ 3
Sodium	ppm	■ 0	■ 0	■ 0	■ <1
Potassium	ppm	■ <1	■ <1	■ 0	■ 0



WEAR METALS

Iron	ppm	■ 26	■ 19	■ 7	■ 57
Copper	ppm	■ 1	■ 1	■ <1	■ <1
Lead	ppm	■ 0	■ 0	■ 0	■ 0
Tin	ppm	■ 0	■ 0	■ <1	■ 0
Aluminum	ppm	■ 2	■ 0	■ 0	■ <1
Chromium	ppm	■ <1	■ <1	■ 0	■ <1
Molybdenum	ppm	■ 3	■ 3	■ 3	■ <1
Nickel	ppm	■ 0	■ 0	■ 0	■ 0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	■ 0	■ <1	■ <1	■ 2
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	■ 183	■ 167	■ 152	■ 23
Magnesium	ppm	■ 36	■ 42	■ 33	■ <1
Zinc	ppm	■ 129	■ 124	■ 111	■ 22
Phosphorus	ppm	■ 1043	■ 1073	■ 941	■ 920
Barium	ppm	■ 5	■ 0	■ 0	■ <1
Boron	ppm	■ 192	■ 155	■ 158	■ 216

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.

Depot: SAIBIR
Unique No: 10729181
Signed: Don Baldrige
Report Date: 09 Nov 2023



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GRAPHS

