



CONSTRUCTION EQUIPMENT

VOLVO A45G 342095 - BOGIE/CENTER AXLE



Sample No: VCP414362
Oil Type: GEAR OIL SAE 80W90
Job No:



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP414362 | VCP402768 | VCP388365 | VCP365244 |
| 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 | ▲ 294 | ▲ 292 | ▲ 298 | ■ 140 |
|-------------|-----|--------------|-------|-------|-------|



CONTAMINATION

| | | | | | |
|-----------|-----|------------|-----|-----|------|
| Silicon | ppm | ■ 8 | ■ 4 | ■ 2 | ■ 3 |
| Sodium | ppm | ■ 0 | ■ 0 | ■ 0 | ■ <1 |
| Potassium | ppm | ■ 1 | ■ 1 | ■ 0 | ■ 0 |



WEAR METALS

| | | | | | |
|------------|-----|----------------|------|------|------|
| Iron | ppm | ■ 55 | ■ 24 | ■ 11 | ■ 61 |
| Copper | ppm | ■ 3 | ■ <1 | ■ <1 | ■ <1 |
| Lead | ppm | ■ 0 | ■ <1 | ■ 0 | ■ 0 |
| Tin | ppm | ■ 0 | ■ 0 | ■ 0 | ■ 0 |
| Aluminum | ppm | ■ 2 | ■ 1 | ■ <1 | ■ <1 |
| Chromium | ppm | ■ <1 | ■ <1 | ■ 0 | ■ <1 |
| Molybdenum | ppm | ■ 3 | ■ 3 | ■ 3 | ■ <1 |
| Nickel | ppm | ■ 0 | ■ <1 | ■ 0 | ■ 0 |
| Titanium | ppm | <1 | 0 | 0 | 0 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | ■ 0 | ■ <1 | ■ <1 | ■ 2 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|---------------|-------|-------|-------|
| Calcium | ppm | ■ 217 | ■ 161 | ■ 159 | ■ 39 |
| Magnesium | ppm | ■ 36 | ■ 34 | ■ 33 | ■ <1 |
| Zinc | ppm | ■ 142 | ■ 122 | ■ 118 | ■ 24 |
| Phosphorus | ppm | ■ 1027 | ■ 988 | ■ 947 | ■ 948 |
| Barium | ppm | ■ 5 | ■ 0 | ■ 0 | ■ <1 |
| Boron | ppm | ■ 207 | ■ 184 | ■ 172 | ■ 117 |

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 oil viscosity is higher than normal. Confirm oil type.

Depot: SAIBIR
Unique No: 10729177
Signed: Don Baldrige
Report Date: 09 Nov 2023

VOLVO GRAPHS

