



CONSTRUCTION EQUIPMENT

VOLVO A45G 342321 - REAR AXLE



Sample No: VCP413179
Oil Type: VOLVO API GL-5 SAE 75W90
Job No:



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP413179 | VCP403658 | VCP369070 | VCP364255 |
| Sample Date | 11 Jul 2023 | 22 Mar 2023 | 23 Nov 2022 | 16 Aug 2022 |
| Machine Hours | 8493 | 8012 | 7534 | 6948 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Not Changd | Changed | Not Changd | Not Changd |
| Sample Status | NORMAL | NORMAL | MARGINAL | 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 | 312 | 288 | 286 | 286 |
|-------------|-----|------------|-----|-----|-----|



CONTAMINATION

| | | | | | |
|-----------|-----|------------|------|---------|-----|
| Water | % | --- | --- | ▲ 0.321 | --- |
| Silicon | ppm | ■ 3 | ■ 3 | ■ 2 | ■ 1 |
| Sodium | ppm | ■ 0 | ■ 1 | ■ 0 | ■ 0 |
| Potassium | ppm | ■ 0 | ■ <1 | ■ 0 | ■ 0 |



WEAR METALS

| | | | | | |
|------------|-----|----------------|-------|------|------|
| Iron | ppm | ■ 14 | ■ 123 | ■ 82 | ■ 80 |
| Copper | ppm | ■ 0 | ■ <1 | ■ <1 | ■ 0 |
| Lead | ppm | ■ 0 | ■ 0 | ■ 0 | ■ 0 |
| Tin | ppm | ■ 0 | ■ 0 | ■ 0 | ■ <1 |
| Aluminum | ppm | ■ 0 | ■ <1 | ■ 0 | ■ <1 |
| Chromium | ppm | ■ <1 | ■ 2 | ■ 1 | ■ <1 |
| Molybdenum | ppm | ■ 3 | ■ 3 | ■ 2 | ■ 1 |
| Nickel | ppm | ■ 0 | ■ <1 | ■ 0 | ■ <1 |
| Titanium | ppm | 0 | 0 | 0 | 0 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | ■ <1 | ■ 4 | ■ 3 | ■ 3 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|---------------|--------|--------|-------|
| Calcium | ppm | ■ 57 | ■ 69 | ■ 66 | ■ 62 |
| Magnesium | ppm | ■ 28 | ■ 20 | ■ 14 | ■ 16 |
| Zinc | ppm | ■ 49 | ■ 51 | ■ 47 | ■ 47 |
| Phosphorus | ppm | ■ 1129 | ■ 1069 | ■ 1018 | ■ 975 |
| Barium | ppm | ■ 0 | ■ 0 | ■ 0 | ■ 0 |
| Boron | ppm | ■ 232 | ■ 205 | ■ 231 | ■ 231 |

Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. 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: 10574627
Signed: Sean Felton
Report Date: 28 Jul 2023



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

