



CONSTRUCTION EQUIPMENT

VOLVO A45GFS 352524 - DROP BOX



Sample No: VCP382708
Oil Type: GEAR OIL SAE 80W90
Job No:



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP382708 | VCP423361 | VCP409125 | VCP398097 |
| Sample Date | 21 Nov 2023 | 18 Sep 2023 | 05 Jul 2023 | 22 Mar 2023 |
| Machine Hours | 4090 | 3390 | 3398 | 2883 |
| Oil Hours | 100 | 0 | 500 | 0 |
| Oil Changed | Not Chngd | Not Chngd | Not Chngd | Not Chngd |
| Sample Status | ATTENTION | ATTENTION | ABNORMAL | ABNORMAL |

DUNN CONSTRUCTION INC
 318 N 14TH ST
 BELLEVUE, IA
 US 52031
 Contact: STEVE DUNN
 DUNNCONSTRUCTINC@GMAIL.COM
 T:
 F:



OIL CONDITION

| | | | | | |
|-------------|-----|--------------|-------|-------|--------|
| Visc @ 40°C | cSt | ▲ 108 | ▲ 107 | ▲ 107 | ■ 52.1 |
|-------------|-----|--------------|-------|-------|--------|



CONTAMINATION

| Water | % | NEG | NEG | NEG | NEG |
|-----------|-----|-------------|------|------|------|
| Silicon | ppm | ■ 24 | ■ 22 | ■ 22 | ▲ 71 |
| Sodium | ppm | ■ 3 | ■ 2 | ■ 2 | ■ 8 |
| Potassium | ppm | ■ 1 | ■ 2 | ■ 2 | ■ <1 |

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 lower than normal. Confirm oil type.



WEAR METALS

| | | | | | |
|------------|-----|----------------|-------|------|-------|
| Iron | ppm | ■ 109 | ■ 111 | ■ 80 | ■ 183 |
| Copper | ppm | ■ 4 | ■ 4 | ■ 4 | ■ 16 |
| Lead | ppm | ■ 0 | ■ 0 | ■ 0 | ■ 0 |
| Tin | ppm | ■ 0 | ■ 0 | ■ 0 | ■ 0 |
| Aluminum | ppm | ■ 1 | ■ 2 | ■ 2 | ■ <1 |
| Chromium | ppm | ■ 2 | ■ 2 | ■ 1 | ■ 2 |
| Molybdenum | ppm | ■ 7 | ■ 8 | ■ 6 | 10 |
| Nickel | ppm | ■ <1 | ■ <1 | ■ <1 | ■ <1 |
| Titanium | ppm | <1 | <1 | <1 | 0 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | ■ 2 | ■ 2 | ■ 1 | 4 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|---------------|--------|--------|------|
| Calcium | ppm | ■ 26 | ■ 30 | ■ 31 | 44 |
| Magnesium | ppm | ■ 2 | ■ 2 | ■ 2 | 4 |
| Zinc | ppm | ■ 16 | ■ 30 | ■ 28 | 118 |
| Phosphorus | ppm | ■ 1280 | ■ 1290 | ■ 1255 | 2160 |
| Barium | ppm | ■ 0 | ■ <1 | ■ <1 | 0 |
| Boron | ppm | ■ 68 | ■ 71 | ■ 88 | 152 |

Depot: DUNBEL
Unique No: 10765659
Signed: Don Baldrige
Report Date: 03 Dec 2023



CONSTRUCTION EQUIPMENT



GRAPHS

