



CONSTRUCTION EQUIPMENT

SWO-069182 VOLVO A45G 352639 - FRONT AXLE



Sample No: VCP441455
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: SWO-069182



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP441455 | VCP431982 | VCP416401 | VCP410477 |
| Sample Date | 24 Jan 2024 | 23 Oct 2023 | 07 Aug 2023 | 12 May 2023 |
| Machine Hours | 5434 | 4956 | 4377 | 3923 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Not Chngd | Not Chngd | Not Chngd | Changed |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |

SAIIA CONSTRUCTION LLC

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OIL CONDITION

| | | | | | |
|-------------|-----|------------|-----|-----|------|
| Visc @ 40°C | cSt | 291 | 288 | 291 | 50.2 |
|-------------|-----|------------|-----|-----|------|



CONTAMINATION

| Water | % | NEG | NEG | NEG | NEG |
|-----------|-----|----------|-----|-----|-----|
| Silicon | ppm | 5 | 5 | 5 | 6 |
| Sodium | ppm | 0 | 0 | 0 | 1 |
| Potassium | ppm | 2 | 2 | <1 | 3 |



WEAR METALS

| | | | | | |
|------------|-----|--------------|----|----|-----|
| Iron | ppm | 62 | 56 | 53 | 395 |
| Copper | ppm | 0 | <1 | <1 | 2 |
| Lead | ppm | <1 | 0 | 0 | 0 |
| Tin | ppm | 0 | <1 | 0 | 0 |
| Aluminum | ppm | <1 | 1 | <1 | 0 |
| Chromium | ppm | <1 | <1 | <1 | 5 |
| Molybdenum | ppm | 1 | 3 | 2 | 5 |
| Nickel | ppm | 0 | <1 | <1 | 1 |
| Titanium | ppm | 0 | <1 | 0 | 0 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | 2 | 1 | 1 | 10 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|------|------|
| Calcium | ppm | 87 | 89 | 89 | 88 |
| Magnesium | ppm | 21 | 17 | 18 | 0 |
| Zinc | ppm | 60 | 50 | 61 | 43 |
| Phosphorus | ppm | 1096 | 1113 | 1043 | 2271 |
| Barium | ppm | 0 | 0 | 2 | 0 |
| Boron | ppm | 212 | 185 | 207 | 177 |

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 condition of the oil is acceptable for the time in service.

Depot: SAIBIR
Unique No: 10849939
Signed: Don Baldrige
Report Date: 31 Jan 2024



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

