



CONSTRUCTION EQUIPMENT

SWO-064224 VOLVO A45G 352736 - REAR AXLE



Sample No: VCP425072
Oil Type: GEAR OIL SAE 80W90
Job No: SWO-064224



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP425072 | VCP400721 | VCP397721 | VCP367368 |
| Sample Date | 01 Aug 2023 | 02 May 2023 | 07 Dec 2022 | 19 Sep 2022 |
| Machine Hours | 7719 | 3396 | 2918 | 2448 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Changed | Not Changd | Not Changd | Not Changd |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |

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OIL CONDITION

| | | | | | |
|-------------|-----|------------|-----|-----|-----|
| Visc @ 40°C | cSt | 151 | 152 | 152 | 153 |
|-------------|-----|------------|-----|-----|-----|



CONTAMINATION

| | | | | | |
|-----------|-----|----------|----|---|---|
| Silicon | ppm | 9 | 10 | 8 | 8 |
| Sodium | ppm | 6 | 8 | 8 | 8 |
| Potassium | ppm | 4 | 3 | 4 | 2 |



WEAR METALS

| | | | | | |
|------------|-----|--------------|-----|-----|-----|
| Iron | ppm | 359 | 344 | 325 | 173 |
| Copper | ppm | 2 | 3 | 6 | 1 |
| Lead | ppm | <1 | 0 | 0 | <1 |
| Tin | ppm | 0 | 0 | 0 | <1 |
| Aluminum | ppm | 3 | <1 | <1 | 2 |
| Chromium | ppm | 6 | 6 | 5 | 3 |
| Molybdenum | ppm | 8 | 8 | 7 | 6 |
| Nickel | ppm | 1 | <1 | <1 | 0 |
| Titanium | ppm | <1 | <1 | 0 | 0 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | 12 | 12 | 10 | 8 |
| Vanadium | ppm | 0 | <1 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|------|------|
| Calcium | ppm | 2767 | 2680 | 2729 | 2838 |
| Magnesium | ppm | 26 | 31 | 24 | 27 |
| Zinc | ppm | 1155 | 1155 | 1179 | 1196 |
| Phosphorus | ppm | 1108 | 1068 | 1081 | 1078 |
| Barium | ppm | 3 | 4 | <1 | 2 |
| Boron | ppm | 43 | 31 | 36 | 31 |

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: 10588367
Signed: Jonathan Hester
Report Date: 07 Aug 2023



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GRAPHS

