



CONSTRUCTION EQUIPMENT

VOLVO A45G 352134 - BOGIE/CENTER AXLE



Sample No: VCP431052
Oil Type: GEAR OIL SAE 90W140
Job No:



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP431052 | VCP431897 | VCP412988 | VCP401937 |
| Sample Date | 22 Nov 2023 | 26 Sep 2023 | 31 May 2023 | 04 Apr 2023 |
| Machine Hours | 8724 | 8228 | 7234 | 6763 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Not Changd | Changed | Not Changd | Not Changd |
| Sample Status | NORMAL | NORMAL | NORMAL | ABNORMAL |

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OIL CONDITION

| | | | | | |
|-------------|-----|------------|-----|-----|-----|
| Visc @ 40°C | cSt | 278 | 306 | 307 | 303 |
|-------------|-----|------------|-----|-----|-----|



CONTAMINATION

| Water | % | NEG | NEG | NEG | NEG |
|-----------|-----|--------------|-----|-----|-----|
| Silicon | ppm | 3 | 4 | 3 | 4 |
| Sodium | ppm | <1 | <1 | <1 | 0 |
| Potassium | ppm | <1 | 0 | 0 | 0 |

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.



WEAR METALS

| | | | | | |
|------------|-----|--------------|----|----|----|
| Iron | ppm | 19 | 88 | 68 | 60 |
| Copper | ppm | <1 | 2 | <1 | <1 |
| Lead | ppm | 0 | 0 | 0 | 0 |
| Tin | ppm | 0 | <1 | 0 | 0 |
| Aluminum | ppm | <1 | 2 | <1 | <1 |
| Chromium | ppm | 0 | 1 | <1 | 1 |
| Molybdenum | ppm | 7 | 2 | 2 | 2 |
| Nickel | ppm | 0 | 0 | 0 | 0 |
| Titanium | ppm | 0 | <1 | 0 | 0 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | <1 | 2 | 2 | 2 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|------------|------|------|------|
| Calcium | ppm | 141 | 87 | 79 | 55 |
| Magnesium | ppm | 44 | 38 | 36 | 35 |
| Zinc | ppm | 135 | 92 | 76 | 77 |
| Phosphorus | ppm | 859 | 1082 | 1056 | 1007 |
| Barium | ppm | 0 | 0 | 0 | 0 |
| Boron | ppm | 119 | 224 | 202 | 202 |

Depot: SAIBIR
Unique No: 10766328
Signed: Don Baldrige
Report Date: 04 Dec 2023



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VOLVO GRAPHS

