



CONSTRUCTION EQUIPMENT

SWA288432 VOLVO A45G 352411 - REAR AXLE



Sample No: VCP427071
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: SWA288432



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP427071 | VCP377496 | VCP317270 | VCP295121 |
| Sample Date | 19 Jun 2023 | 30 Apr 2022 | 17 Jul 2021 | 05 Dec 2020 |
| Machine Hours | 5591 | 3478 | 2213 | 1400 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Changed | Not Changd | Not Changd | Changed |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |

ORANGE COUNTY SOLID WASTE
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OIL CONDITION

| | | | | | |
|-------------|-----|------------|-----|-----|------|
| Visc @ 40°C | cSt | 268 | 271 | 281 | 51.1 |
|-------------|-----|------------|-----|-----|------|



CONTAMINATION

| | | | | | |
|-----------|-----|----------|----|----|----|
| Silicon | ppm | 4 | 2 | 3 | <1 |
| Sodium | ppm | 2 | 1 | 0 | 3 |
| Potassium | ppm | 2 | <1 | <1 | 23 |



WEAR METALS

| | | | | | |
|------------|-----|--------------|-----|----|-----|
| Iron | ppm | 162 | 101 | 80 | 203 |
| Copper | ppm | 9 | 5 | 2 | 2 |
| Lead | ppm | 0 | 0 | 0 | <1 |
| Tin | ppm | 0 | 0 | 0 | 0 |
| Aluminum | ppm | <1 | <1 | 0 | <1 |
| Chromium | ppm | 3 | 2 | 2 | 3 |
| Molybdenum | ppm | 2 | 2 | 2 | 4 |
| Nickel | ppm | <1 | <1 | <1 | <1 |
| Titanium | ppm | 0 | 0 | 0 | 0 |
| Silver | ppm | 0 | <1 | 0 | 0 |
| Manganese | ppm | 6 | 5 | 4 | 14 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|-----|------|
| Calcium | ppm | 217 | 135 | 85 | 126 |
| Magnesium | ppm | 8 | 7 | 7 | <1 |
| Zinc | ppm | 131 | 77 | 45 | 58 |
| Phosphorus | ppm | 1007 | 1060 | 920 | 2340 |
| Barium | ppm | 0 | 0 | 0 | <1 |
| Boron | ppm | 115 | 87 | 101 | 216 |

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: ORAORL
Unique No: 10536415
Signed: Wes Davis
Report Date: 02 Jul 2023



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GRAPHS

