



CONSTRUCTION EQUIPMENT

SWO-066005 VOLVO A40G 341023 - FRONT AXLE



Sample No: VCP431093
Oil Type: GEAR OIL SAE 80W140
Job No: SWO-066005



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP431093 | VCP408955 | VCP368385 | VCP369467 |
| Sample Date | 20 Sep 2023 | 13 Jun 2023 | 07 Mar 2023 | 03 Nov 2022 |
| Machine Hours | 8472 | 7952 | 7404 | 6919 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Not Changd | Changed | Not Changd | Not Changd |
| Sample Status | NORMAL | NORMAL | NORMAL | NORMAL |

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OIL CONDITION

| | | | | | |
|-------------|-----|------------|-----|-----|-----|
| Visc @ 40°C | cSt | 315 | 324 | 323 | 324 |
|-------------|-----|------------|-----|-----|-----|



CONTAMINATION

| | | | | | |
|-----------|-----|--------------|----|---|---|
| Silicon | ppm | 5 | 2 | 2 | 3 |
| Sodium | ppm | 0 | 0 | 0 | 0 |
| Potassium | ppm | <1 | <1 | 0 | 0 |



WEAR METALS

| | | | | | |
|------------|-----|--------------|---|----|----|
| Iron | ppm | 2 | 6 | 5 | 7 |
| Copper | ppm | 0 | 0 | 0 | <1 |
| Lead | ppm | 0 | 0 | 0 | 0 |
| Tin | ppm | 0 | 0 | 0 | 0 |
| Aluminum | ppm | <1 | 0 | <1 | <1 |
| Chromium | ppm | 0 | 0 | 0 | 0 |
| Molybdenum | ppm | 3 | 2 | 2 | 2 |
| Nickel | ppm | 0 | 0 | 0 | 0 |
| Titanium | ppm | 0 | 0 | 0 | 0 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | 0 | 0 | 0 | <1 |
| Vanadium | ppm | 0 | 0 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|-------------|-----|-----|-----|
| Calcium | ppm | 75 | 65 | 58 | 59 |
| Magnesium | ppm | 17 | 14 | 14 | 13 |
| Zinc | ppm | 53 | 40 | 35 | 27 |
| Phosphorus | ppm | 1014 | 986 | 883 | 847 |
| Barium | ppm | 0 | 2 | 0 | 0 |
| Boron | ppm | 183 | 171 | 145 | 139 |

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: 10661386
Signed: Don Baldrige
Report Date: 26 Sep 2023



CONSTRUCTION EQUIPMENT



GRAPHS

