



CONSTRUCTION EQUIPMENT

594455 MOSAIC VOLVO EC480E 314327 - REAR LEFT FINAL DRIVE



Sample No: VCP414653
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: 594455 MOSAIC



ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC
 8418 PALM RIVER ROAD
 TAMPA, FL
 US 33619
 Contact: JOHN FARDELLA
 JFARDELLA@ALTAEQUIPFL.COM
 T: (813)630-0077
 F: (813)630-2233



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP414653 | VCP398961 | VCP392905 | VCP373185 |
| Sample Date | 19 Aug 2023 | 02 Dec 2022 | 02 Dec 2022 | 12 May 2022 |
| Machine Hours | 4013 | 3030 | 3030 | 2020 |
| Oil Hours | 1000 | 1030 | 1000 | 1000 |
| Oil Changed | Changed | Changed | Changed | Changed |
| Sample Status | SEVERE | ABNORMAL | NORMAL | NORMAL |



OIL CONDITION

| | | | | | |
|-------------|-----|------------|-------|-----|-----|
| Visc @ 40°C | cSt | 307 | 330.4 | 266 | 260 |
|-------------|-----|------------|-------|-----|-----|



CONTAMINATION

| | | | | | |
|-----------|-----|------------|-----|----|----|
| Silicon | ppm | 491 | 648 | 33 | 51 |
| Sodium | ppm | 0 | <1 | 0 | 0 |
| Potassium | ppm | 0 | 2 | 1 | 2 |



WEAR METALS

| | | | | | |
|------------|-----|--------------|------|-----|------|
| Iron | ppm | 2381 | 4401 | 848 | 1507 |
| Copper | ppm | 3 | 6 | 1 | 2 |
| Lead | ppm | 0 | <1 | 0 | 0 |
| Tin | ppm | <1 | <1 | 0 | 0 |
| Aluminum | ppm | 19 | 39 | 4 | 7 |
| Chromium | ppm | 26 | 44 | 11 | 20 |
| Molybdenum | ppm | 5 | 7 | 5 | 4 |
| Nickel | ppm | 2 | 3 | 0 | 0 |
| Titanium | ppm | 3 | 4 | <1 | <1 |
| Silver | ppm | 0 | 0 | 0 | 0 |
| Manganese | ppm | 18 | 29 | 6 | 12 |
| Vanadium | ppm | 0 | <1 | 0 | 0 |



ADDITIVES

| | | | | | |
|------------|-----|------------|-----|-----|-----|
| Calcium | ppm | 69 | 46 | 66 | 23 |
| Magnesium | ppm | 13 | 15 | 21 | 8 |
| Zinc | ppm | 42 | 45 | 71 | 38 |
| Phosphorus | ppm | 969 | 570 | 839 | 656 |
| Barium | ppm | 0 | <1 | 2 | 5 |
| Boron | ppm | 168 | 56 | 92 | 74 |

Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.

Depot: VOLVO0093
Unique No: 10669039
Signed: Don Baldrige
Report Date: 28 Sep 2023



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GRAPHS

