



CONSTRUCTION EQUIPMENT

SWA531283 HITACHI ZW550 ZW5506-005204 - FRONT DIFFERENTIAL



Sample No: VCP410283

Oil Type: {unknown}

Job No: SWA531283



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-----|
| Sample Number | VCP410283 | VCP358033 | VCP315241 | --- |
| Sample Date | 09 Apr 2024 | 29 Mar 2022 | 25 Jul 2021 | --- |
| Machine Hours | 9678 | 4069 | 1079 | --- |
| Oil Hours | 0 | 0 | 0 | --- |
| Oil Changed | Not Chngd | Changed | Not Chngd | --- |
| Sample Status | ABNORMAL | ABNORMAL | NORMAL | --- |

ALTA EQUIPMENT CO - ORLAND PARK
 5000 INDUSTRIAL HWY
 GARY, IN
 US 46406
 Contact: MARK DEROSA
 mark.derosa@altg.com
 T: (248)356-5200
 F:



OIL CONDITION

| | | | | | |
|-------------|-----|------------|-----|-----|-----|
| Visc @ 40°C | cSt | 189 | 188 | 191 | --- |
|-------------|-----|------------|-----|-----|-----|



CONTAMINATION

| | | | | | |
|-----------|-----|------------|-----|-----|-----|
| Water | % | NEG | NEG | NEG | --- |
| Silicon | ppm | 44 | 36 | 17 | --- |
| Sodium | ppm | 3 | 2 | 2 | --- |
| Potassium | ppm | 0 | 0 | 1 | --- |

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. Gear wear is indicated. 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 | 1230 | 982 | 268 | --- |
| Copper | ppm | 3 | 4 | 2 | --- |
| Lead | ppm | 3 | 3 | 2 | --- |
| Tin | ppm | <1 | <1 | <1 | --- |
| Aluminum | ppm | 0 | 9 | <1 | --- |
| Chromium | ppm | 4 | 3 | <1 | --- |
| Molybdenum | ppm | 0 | <1 | <1 | --- |
| Nickel | ppm | 0 | <1 | 0 | --- |
| Titanium | ppm | <1 | <1 | 0 | --- |
| Silver | ppm | 0 | <1 | <1 | --- |
| Manganese | ppm | 15 | 12 | 4 | --- |
| Vanadium | ppm | 0 | 0 | 0 | --- |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|------|-----|
| Calcium | ppm | 3596 | 3499 | 3550 | --- |
| Magnesium | ppm | 11 | 12 | 9 | --- |
| Zinc | ppm | 1889 | 1914 | 1944 | --- |
| Phosphorus | ppm | 1182 | 1156 | 1138 | --- |
| Barium | ppm | 4 | 1 | 0 | --- |
| Boron | ppm | 119 | 124 | 138 | --- |

Depot: VOLVO8885
Unique No: 10977813
Signed: Sean Felton
Report Date: 16 Apr 2024



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VOLVO GRAPHS

