



CONSTRUCTION EQUIPMENT

SPM619899 VOLVO EC380E 310775 - SWING DRIVE



Sample No: VCP413058
Oil Type: GEAR OIL SAE 80W90
Job No: SPM619899



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-------------|
| Sample Number | VCP413058 | VCP383235 | VCP387428 | VCP325811 |
| Sample Date | 12 Oct 2023 | 22 Feb 2023 | 16 Nov 2022 | 21 Sep 2021 |
| Machine Hours | 22964 | 20570 | 19763 | 16084 |
| Oil Hours | 0 | 0 | 0 | 0 |
| Oil Changed | Changed | Not Chngd | Changed | Changed |
| Sample Status | SEVERE | ABNORMAL | ABNORMAL | ABNORMAL |

UNITED SCRAP
1545 S CICERO AVE
CICERO, IL
US 60804
Contact: RON LUCHTENBURG
rluchten@unitedscrap.com
T:
F:

OIL CONDITION

| | | | | | |
|-------------|-----|------------|-----|-----|-----|
| Visc @ 40°C | cSt | 201 | 134 | 164 | 194 |
|-------------|-----|------------|-----|-----|-----|

CONTAMINATION

| | | | | | |
|-----------|-----|-------------|-------|-------|------|
| Water | % | 6.75 | 0.113 | 0.792 | 1.25 |
| Silicon | ppm | 26 | 17 | 12 | 26 |
| Sodium | ppm | 0 | <1 | 2 | 7 |
| Potassium | ppm | 5 | 3 | 3 | 14 |

WEAR METALS

| | | | | | |
|------------|-----|--------------|-----|-----|-----|
| Iron | ppm | 189 | 118 | 548 | 233 |
| Copper | ppm | 12 | 4 | 12 | 70 |
| Lead | ppm | 2 | 0 | 0 | 2 |
| Tin | ppm | 3 | 0 | 0 | <1 |
| Aluminum | ppm | 3 | 2 | 4 | 8 |
| Chromium | ppm | 2 | 2 | 6 | 3 |
| Molybdenum | ppm | 0 | 1 | 1 | 1 |
| Nickel | ppm | <1 | 0 | <1 | <1 |
| Titanium | ppm | 5 | 2 | 3 | <1 |
| Silver | ppm | 0 | <1 | 0 | <1 |
| Manganese | ppm | 3 | 1 | 6 | 6 |
| Vanadium | ppm | <1 | 0 | 0 | 0 |

ADDITIVES

| | | | | | |
|------------|-----|-------------|------|------|------|
| Calcium | ppm | 2552 | 2142 | 341 | 2001 |
| Magnesium | ppm | 51 | 30 | 9 | 26 |
| Zinc | ppm | 977 | 819 | 155 | 861 |
| Phosphorus | ppm | 1164 | 945 | 1847 | 835 |
| Barium | ppm | 0 | 0 | 0 | <1 |
| Boron | ppm | 48 | 33 | 37 | 15 |

Diagnosis

We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a high concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.

Depot: UNICICIL
Unique No: 10713337
Signed: Don Baldrige
Report Date: 30 Oct 2023



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GRAPHS

