



CONSTRUCTION EQUIPMENT

SWA53217 - DROP BOX



Sample No: VCP398239
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: SWA532217



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-----|
| Sample Number | VCP398239 | VCP413405 | VCP0007643 | --- |
| Sample Date | 26 Apr 2024 | 25 Oct 2023 | 23 May 2023 | --- |
| Machine Hours | 6400 | 6359 | 6193 | --- |
| Oil Hours | 0 | 1000 | 6193 | --- |
| Oil Changed | Not Chngd | Changed | N/A | --- |
| Sample Status | NORMAL | NORMAL | NORMAL | --- |

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OIL CONDITION

| | | | | | |
|-------------|-----|------------|-----|-----|-----|
| Visc @ 40°C | cSt | 175 | 233 | 226 | --- |
|-------------|-----|------------|-----|-----|-----|



CONTAMINATION

| | | | | | |
|-----------|-----|--------------|-----|-----|-----|
| Water | % | NEG | NEG | NEG | --- |
| Silicon | ppm | 9 | 6 | 5 | --- |
| Sodium | ppm | <1 | 8 | 4 | --- |
| Potassium | ppm | 0 | 2 | <1 | --- |

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.



WEAR METALS

| | | | | | |
|------------|-----|--------------|-----|-----|-----|
| Iron | ppm | 37 | 341 | 334 | --- |
| Copper | ppm | <1 | 2 | 2 | --- |
| Lead | ppm | 0 | <1 | 0 | --- |
| Tin | ppm | <1 | 0 | 0 | --- |
| Aluminum | ppm | <1 | 10 | 10 | --- |
| Chromium | ppm | <1 | 5 | 5 | --- |
| Molybdenum | ppm | <1 | 22 | 23 | --- |
| Nickel | ppm | 0 | 3 | 2 | --- |
| Titanium | ppm | 0 | <1 | 0 | --- |
| Silver | ppm | 0 | 0 | 0 | --- |
| Manganese | ppm | <1 | 4 | 4 | --- |
| Vanadium | ppm | 0 | 0 | 0 | --- |



ADDITIVES

| | | | | | |
|------------|-----|-------------|-----|-----|-----|
| Calcium | ppm | 8 | 88 | 119 | --- |
| Magnesium | ppm | 0 | 25 | 27 | --- |
| Zinc | ppm | 12 | 63 | 75 | --- |
| Phosphorus | ppm | 1704 | 294 | 319 | --- |
| Barium | ppm | 0 | 0 | 0 | --- |
| Boron | ppm | 202 | 31 | 29 | --- |

Depot: VOLVO2990
Unique No: 11004067
Signed: Jonathan Hester
Report Date: 01 May 2024



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GRAPHS

