



CONSTRUCTION EQUIPMENT

TERRAMAC RT14R 14RH00105 - SWING DRIVE



Sample No: VCP435061
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No:



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-----|
| Sample Number | VCP435061 | VCP368620 | VCP284692 | --- |
| Sample Date | 15 Apr 2024 | 12 Apr 2023 | 18 Jun 2020 | --- |
| Machine Hours | 0 | 2320 | 1108 | --- |
| Oil Hours | 0 | 0 | 0 | --- |
| Oil Changed | Not Changed | Changed | Changed | --- |
| Sample Status | NORMAL | ABNORMAL | ABNORMAL | --- |

ALTA EQUIPMENT

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OIL CONDITION

| | | | | | |
|-------------|-----|------------|-----|-----|-----|
| Visc @ 40°C | cSt | 214 | 204 | 193 | --- |
|-------------|-----|------------|-----|-----|-----|



CONTAMINATION

| Water | % | NEG | NEG | NEG | --- |
|-----------|-----|----------|-----|-----|-----|
| Silicon | ppm | 7 | 62 | 53 | --- |
| Sodium | ppm | 4 | 6 | 10 | --- |
| Potassium | ppm | 2 | 6 | 10 | --- |

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 | 299 | 183 | 26 | --- |
| Copper | ppm | 7 | 164 | 2 | --- |
| Lead | ppm | <1 | 2 | <1 | --- |
| Tin | ppm | <1 | 35 | <1 | --- |
| Aluminum | ppm | 4 | 9 | 19 | --- |
| Chromium | ppm | 3 | 3 | <1 | --- |
| Molybdenum | ppm | 367 | 383 | 312 | --- |
| Nickel | ppm | 0 | 0 | <1 | --- |
| Titanium | ppm | <1 | <1 | 1 | --- |
| Silver | ppm | 0 | 0 | <1 | --- |
| Manganese | ppm | 3 | 3 | 1 | --- |
| Vanadium | ppm | 0 | 0 | 0 | --- |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|-----|-----|
| Calcium | ppm | 76 | 92 | 100 | --- |
| Magnesium | ppm | 2 | 9 | 11 | --- |
| Zinc | ppm | 48 | 39 | 53 | --- |
| Phosphorus | ppm | 1195 | 1143 | 885 | --- |
| Barium | ppm | 1 | 0 | 3 | --- |
| Boron | ppm | 106 | 109 | 73 | --- |

Depot: VOLV00142
Unique No: 10990225
Signed: Wes Davis
Report Date: 22 Apr 2024



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GRAPHS

