



CONSTRUCTION EQUIPMENT

5809HO VOLVO ECR355EL 310191 - REAR LEFT FINAL DRIVE



Sample No: VCP452214
Oil Type: VOLVO SUPER GEAR OIL 75W-80-GO102
Job No: 5809HO



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-----|
| Sample Number | VCP452214 | VCP371557 | VCP264933 | --- |
| Sample Date | 09 Feb 2024 | 16 Sep 2022 | 16 Jul 2020 | --- |
| Machine Hours | 3809 | 2172 | 496 | --- |
| Oil Hours | 2000 | 0 | 0 | --- |
| Oil Changed | Changed | Changed | N/A | --- |
| Sample Status | SEVERE | SEVERE | NORMAL | --- |

PENNSYLVANIA SUPPLY
 833 PAXTON STREET
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OIL CONDITION

| | | | | | |
|-------------|-----|------------|-----|-----|-----|
| Visc @ 40°C | cSt | 199 | 260 | 182 | --- |
|-------------|-----|------------|-----|-----|-----|



CONTAMINATION

| | | | | | |
|-----------|-----|-------------|------|-------|-----|
| Water | % | 3.27 | 3.47 | 0.175 | --- |
| Silicon | ppm | 72 | 65 | 12 | --- |
| Sodium | ppm | 0 | 0 | <1 | --- |
| Potassium | ppm | 14 | 8 | 0 | --- |

Diagnosis

We advise that you check for the source of water entry. 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. There is a high concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.



WEAR METALS

| | | | | | |
|------------|-----|------------|-----|-----|-----|
| Iron | ppm | 992 | 888 | 225 | --- |
| Copper | ppm | 2 | 1 | <1 | --- |
| Lead | ppm | 0 | <1 | 0 | --- |
| Tin | ppm | 0 | 1 | 1 | --- |
| Aluminum | ppm | 26 | 25 | <1 | --- |
| Chromium | ppm | 75 | 75 | 10 | --- |
| Molybdenum | ppm | 8 | 8 | 0 | --- |
| Nickel | ppm | 6 | 6 | <1 | --- |
| Titanium | ppm | 2 | 2 | <1 | --- |
| Silver | ppm | 0 | 1 | <1 | --- |
| Manganese | ppm | 10 | 11 | 2 | --- |
| Vanadium | ppm | 0 | <1 | 0 | --- |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|-----|-----|
| Calcium | ppm | 2927 | 3400 | 339 | --- |
| Magnesium | ppm | 82 | 93 | 12 | --- |
| Zinc | ppm | 32 | 42 | 11 | --- |
| Phosphorus | ppm | 872 | 710 | 339 | --- |
| Barium | ppm | 0 | <1 | 3 | --- |
| Boron | ppm | 79 | 41 | 2 | --- |

Depot: PENHAR
Unique No: 10885426
Signed: Don Baldrige
Report Date: 20 Feb 2024



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GRAPHS

