



CONSTRUCTION EQUIPMENT

G08260 COVIA VOLVO L220F 8070 - DIESEL ENGINE



Sample No: VCP435180
Oil Type: DIESEL ENGINE OIL SAE 30
Job No: G08260 COVIA



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-----|
| Sample Number | VCP435180 | VCP410744 | VCP386439 | --- |
| Sample Date | 05 Jan 2024 | 06 Apr 2023 | 24 Mar 2023 | --- |
| Machine Hours | 23144 | 22400 | 22371 | --- |
| Oil Hours | 0 | 0 | 0 | --- |
| Oil Changed | N/A | N/A | N/A | --- |
| Sample Status | NORMAL | NORMAL | ABNORMAL | --- |

HOFFMAN EQUIPMENT - DEPTFORD
1330 HURFFVILLE ROAD
DEPTFORD, NJ
US 08096
Contact: TAMMY SANDORA
tammy.sandora@hoffmanequip.com
T: (856)227-6400
F: (856)227-0046



OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|------|-----|
| Visc @ 100°C | cSt | 11.6 | 13.0 | 12.4 | --- |
| Base Number (BN) | mg KOH/g | 9.0 | 6.3 | 8.1 | --- |
| Oxidation (PA) | % | 67 | 35 | 49 | --- |

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



CONTAMINATION

| | | | | | |
|----------------|-----|----------------|------|------|-----|
| Water | % | NEG | NEG | NEG | --- |
| Soot % | % | 0.4 | 0.1 | 0.3 | --- |
| Nitration (PA) | % | 50 | 41 | 53 | --- |
| Sulfation (PA) | % | 57 | 38 | 50 | --- |
| Glycol | % | NEG | NEG | NEG | --- |
| Fuel | % | <1.0 | <1.0 | <1.0 | --- |
| Silicon | ppm | 6 | 3 | 33 | --- |
| Sodium | ppm | 2 | 5 | 10 | --- |
| Potassium | ppm | 2 | <1 | 9 | --- |



WEAR METALS

| | | | | | |
|------------|-----|--------------|----|----|-----|
| Iron | ppm | 8 | 22 | 14 | --- |
| Copper | ppm | 6 | 5 | 76 | --- |
| Lead | ppm | 2 | 0 | 8 | --- |
| Tin | ppm | 1 | <1 | 8 | --- |
| Aluminum | ppm | <1 | 7 | 4 | --- |
| Chromium | ppm | 0 | <1 | 1 | --- |
| Molybdenum | ppm | 30 | 65 | 16 | --- |
| Nickel | ppm | 1 | 0 | 2 | --- |
| Titanium | ppm | <1 | 0 | 32 | --- |
| Silver | ppm | 0 | 0 | 0 | --- |
| Manganese | ppm | 0 | 1 | 6 | --- |
| Vanadium | ppm | 0 | 0 | <1 | --- |



ADDITIVES

| | | | | | |
|------------|-----|-------------|------|------|-----|
| Calcium | ppm | 1611 | 1179 | 1869 | --- |
| Magnesium | ppm | 393 | 925 | 238 | --- |
| Zinc | ppm | 1038 | 1263 | 1066 | --- |
| Phosphorus | ppm | 825 | 1046 | 894 | --- |
| Barium | ppm | 0 | 0 | 0 | --- |
| Boron | ppm | 52 | 11 | 82 | --- |

Depot: VOLVO8880
Unique No: 10823582
Signed: Wes Davis
Report Date: 11 Jan 2024



CONSTRUCTION EQUIPMENT



GRAPHS

