



CONSTRUCTION EQUIPMENT

228070 DT UTILITIES VOLVO EC160EL 310108 - DIESEL ENGINE



Sample No: VCP408106
Oil Type: NOT GIVEN
Job No: 228070 DT UTILITIES



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VCP408106 | --- | --- | --- |
| Sample Date | 20 Jun 2023 | --- | --- | --- |
| Machine Hours | 10238 | --- | --- | --- |
| Oil Hours | 0 | --- | --- | --- |
| Oil Changed | Not Chngd | --- | --- | --- |
| Sample Status | SEVERE | --- | --- | --- |

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OIL CONDITION

| | | | | | |
|------------------|----------|-----|-----|-----|-----|
| Visc @ 100°C | cSt | 8.2 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | 9.3 | --- | --- | --- |
| Oxidation (PA) | % | 52 | --- | --- | --- |



CONTAMINATION

| | | | | | |
|----------------|-----|------|-----|-----|-----|
| Soot % | % | 0.1 | --- | --- | --- |
| Nitration (PA) | % | 58 | --- | --- | --- |
| Sulfation (PA) | % | 50 | --- | --- | --- |
| Glycol | % | NEG | --- | --- | --- |
| Fuel | % | 19.5 | --- | --- | --- |
| Silicon | ppm | 6 | --- | --- | --- |
| Sodium | ppm | 3 | --- | --- | --- |
| Potassium | ppm | 2 | --- | --- | --- |



WEAR METALS

| | | | | | |
|------------|-----|-----|-----|-----|-----|
| Iron | ppm | 8 | --- | --- | --- |
| Copper | ppm | 2 | --- | --- | --- |
| Lead | ppm | 1 | --- | --- | --- |
| Tin | ppm | <1 | --- | --- | --- |
| Aluminum | ppm | 0 | --- | --- | --- |
| Chromium | ppm | 1 | --- | --- | --- |
| Molybdenum | ppm | 210 | --- | --- | --- |
| Nickel | ppm | <1 | --- | --- | --- |
| Titanium | ppm | <1 | --- | --- | --- |
| Silver | ppm | <1 | --- | --- | --- |
| Manganese | ppm | <1 | --- | --- | --- |
| Vanadium | ppm | 0 | --- | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|------|-----|-----|-----|
| Calcium | ppm | 923 | --- | --- | --- |
| Magnesium | ppm | 806 | --- | --- | --- |
| Zinc | ppm | 1037 | --- | --- | --- |
| Phosphorus | ppm | 936 | --- | --- | --- |
| Barium | ppm | 5 | --- | --- | --- |
| Boron | ppm | 16 | --- | --- | --- |

Diagnosis

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Depot: VOLVO0081
Unique No: 10533360
Signed: Wes Davis
Report Date: 28 Jun 2023



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GRAPHS

