



CONSTRUCTION EQUIPMENT

FORD HDB068 MI8332733 - DIESEL ENGINE



Sample No: VCP346324
Oil Type: MOTORCRAFT 5W40
Job No:



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VCP346324 | --- | --- | --- |
| Sample Date | 13 Nov 2023 | --- | --- | --- |
| Machine Hours | 0 | --- | --- | --- |
| Oil Hours | 5000 | --- | --- | --- |
| Oil Changed | Changed | --- | --- | --- |
| Sample Status | NORMAL | --- | --- | --- |

TRI-STATE TRUCK & EQUIPMENT
 5250 MIDLAND RD
 BILLINGS, MT
 US 59101
 Contact: Warranty Program



OIL CONDITION

| | | | | | |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C | cSt | █ 12.8 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | █ 7.4 | --- | --- | --- |
| Oxidation (PA) | % | 61 | --- | --- | --- |

T: (406)245-3188
 F: (406)238-1501

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 | --- | --- | --- |
| Soot % | % | █ 1.5 | --- | --- | --- |
| Nitration (PA) | % | 90 | --- | --- | --- |
| Sulfation (PA) | % | 59 | --- | --- | --- |
| Glycol | % | NEG | --- | --- | --- |
| Fuel | % | <1.0 | --- | --- | --- |
| Silicon | ppm | █ 11 | --- | --- | --- |
| Sodium | ppm | █ <1 | --- | --- | --- |
| Potassium | ppm | █ 3 | --- | --- | --- |



WEAR METALS

| | | | | | |
|------------|-----|------|-----|-----|-----|
| Iron | ppm | █ 34 | --- | --- | --- |
| Copper | ppm | █ 2 | --- | --- | --- |
| Lead | ppm | █ 0 | --- | --- | --- |
| Tin | ppm | █ 0 | --- | --- | --- |
| Aluminum | ppm | █ 6 | --- | --- | --- |
| Chromium | ppm | █ 1 | --- | --- | --- |
| Molybdenum | ppm | █ 69 | --- | --- | --- |
| Nickel | ppm | █ <1 | --- | --- | --- |
| Titanium | ppm | █ <1 | --- | --- | --- |
| Silver | ppm | █ 0 | --- | --- | --- |
| Manganese | ppm | <1 | --- | --- | --- |
| Vanadium | ppm | 0 | --- | --- | --- |



ADDITIVES

| | | | | | |
|------------|-----|--------|-----|-----|-----|
| Calcium | ppm | █ 1947 | --- | --- | --- |
| Magnesium | ppm | █ 190 | --- | --- | --- |
| Zinc | ppm | █ 1148 | --- | --- | --- |
| Phosphorus | ppm | █ 970 | --- | --- | --- |
| Barium | ppm | █ 11 | --- | --- | --- |
| Boron | ppm | █ 52 | --- | --- | --- |

Depot: VOLVO4181
Unique No: 10751257
Signed: Wes Davis
Report Date: 21 Nov 2023



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GRAPHS

