



CONSTRUCTION EQUIPMENT

KENWORTH T370 2NKHHJ7X6MM442485 - DIESEL ENGINE



Sample No: VCP423436
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No:



SAMPLE INFORMATION

| | | | | |
|---------------|--------------------|-------------|-------------|-----|
| Sample Number | VCP423436 | VCP05827226 | VCP325202 | --- |
| Sample Date | 19 Oct 2023 | 28 Mar 2023 | 28 Jun 2022 | --- |
| Machine Hours | 80060 | 61973 | 2668 | --- |
| Oil Hours | 0 | 0 | 0 | --- |
| Oil Changed | Changed | Changed | Changed | --- |
| Sample Status | NORMAL | NORMAL | NORMAL | --- |

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OIL CONDITION

| | | | | | |
|------------------|----------|-------------|------|------|-----|
| Visc @ 100°C | cSt | 14.2 | 13.5 | 13.2 | --- |
| Base Number (BN) | mg KOH/g | 7.7 | 8.5 | 8.1 | --- |
| Oxidation (PA) | % | 58 | 61 | 91 | --- |

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

| | | | | | |
|----------------|-----|----------------|------|------|-----|
| Soot % | % | 0.1 | 0.2 | 0.4 | --- |
| Nitration (PA) | % | 50 | 62 | 85 | --- |
| Sulfation (PA) | % | 51 | 48 | 61 | --- |
| Glycol | % | NEG | NEG | NEG | --- |
| Fuel | % | <1.0 | <1.0 | <1.0 | --- |
| Silicon | ppm | 3 | 3 | 4 | --- |
| Sodium | ppm | 3 | 3 | 9 | --- |
| Potassium | ppm | 8 | 9 | 22 | --- |

WEAR METALS

| | | | | | |
|------------|-----|--------------|----|----|-----|
| Iron | ppm | 5 | 12 | 25 | --- |
| Copper | ppm | <1 | 2 | 2 | --- |
| Lead | ppm | 0 | 0 | <1 | --- |
| Tin | ppm | <1 | <1 | 1 | --- |
| Aluminum | ppm | 5 | 6 | 12 | --- |
| Chromium | ppm | <1 | <1 | 1 | --- |
| Molybdenum | ppm | 53 | 56 | 29 | --- |
| Nickel | ppm | <1 | 0 | 0 | --- |
| Titanium | ppm | <1 | 0 | <1 | --- |
| Silver | ppm | 0 | <1 | <1 | --- |
| Manganese | ppm | 0 | <1 | <1 | --- |
| Vanadium | ppm | <1 | 0 | 0 | --- |

ADDITIVES

| | | | | | |
|------------|-----|-------------|------|------|-----|
| Calcium | ppm | 913 | 844 | 1879 | --- |
| Magnesium | ppm | 884 | 814 | 237 | --- |
| Zinc | ppm | 1136 | 1008 | 974 | --- |
| Phosphorus | ppm | 933 | 898 | 800 | --- |
| Barium | ppm | 0 | 0 | 0 | --- |
| Boron | ppm | 0 | 2 | 26 | --- |

Depot: VOLVO8885
Unique No: 10712800
Signed: Wes Davis
Report Date: 27 Oct 2023



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GRAPHS

