



CONSTRUCTION EQUIPMENT

VULCAN VOLVO A40G 352031 - DIESEL ENGINE



Sample No: VCP384557

Oil Type: {unknown}

Job No: VULCAN



SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-------------|-----|-----|
| Sample Number | VCP384557 | VCP351389 | --- | --- |
| Sample Date | 02 Apr 2024 | 06 Apr 2022 | --- | --- |
| Machine Hours | 6766 | 4126 | --- | --- |
| Oil Hours | 0 | 0 | --- | --- |
| Oil Changed | Not Chngd | Changed | --- | --- |
| Sample Status | NORMAL | NORMAL | --- | --- |

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OIL CONDITION

| | | | | | |
|------------------|----------|--------|--------|-----|-----|
| Visc @ 100°C | cSt | █ 12.4 | █ 12.6 | --- | --- |
| Base Number (BN) | mg KOH/g | █ 9.7 | █ 9.7 | --- | --- |
| Oxidation (PA) | % | 84 | 90 | --- | --- |

Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. 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 | --- | --- |
| Soot % | % | █ 0.3 | █ 0.3 | --- | --- |
| Nitration (PA) | % | 80 | 91 | --- | --- |
| Sulfation (PA) | % | 60 | 67 | --- | --- |
| Glycol | % | NEG | NEG | --- | --- |
| Fuel | % | <1.0 | <1.0 | --- | --- |
| Silicon | ppm | █ 12 | █ 6 | --- | --- |
| Sodium | ppm | █ 6 | █ 2 | --- | --- |
| Potassium | ppm | █ 3 | █ <1 | --- | --- |

WEAR METALS

| | | | | | |
|------------|-----|------|------|-----|-----|
| Iron | ppm | █ 19 | █ 13 | --- | --- |
| Copper | ppm | █ 2 | █ 11 | --- | --- |
| Lead | ppm | █ <1 | █ <1 | --- | --- |
| Tin | ppm | █ 1 | █ <1 | --- | --- |
| Aluminum | ppm | █ 11 | █ 3 | --- | --- |
| Chromium | ppm | █ 1 | █ <1 | --- | --- |
| Molybdenum | ppm | █ 41 | █ 41 | --- | --- |
| Nickel | ppm | █ 8 | █ 0 | --- | --- |
| Titanium | ppm | <1 | 0 | --- | --- |
| Silver | ppm | █ 0 | <1 | --- | --- |
| Manganese | ppm | <1 | <1 | --- | --- |
| Vanadium | ppm | <1 | 0 | --- | --- |

ADDITIVES

| | | | | | |
|------------|-----|--------|--------|-----|-----|
| Calcium | ppm | █ 1644 | █ 1822 | --- | --- |
| Magnesium | ppm | █ 489 | █ 551 | --- | --- |
| Zinc | ppm | █ 1089 | █ 1292 | --- | --- |
| Phosphorus | ppm | █ 928 | █ 1055 | --- | --- |
| Barium | ppm | █ 0 | █ 0 | --- | --- |
| Boron | ppm | █ 38 | █ 31 | --- | --- |

Depot: VOLV00129
Unique No: 10963048
Signed: Jonathan Hester
Report Date: 04 Apr 2024



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GRAPHS

