VOLVO

CONSTRUCTION EQUIPMENT RANGO VOLVO A60H 340071 - DIESEL ENGINE



Sample No:VCP388315Oil Type:DIESEL ENGINE OIL SAE 15W40Job No:RANGO

| SAMPLE I | FORMATION | | | |
|------------------|-----------|-------------|------|--|
| Sample Number | | VCP388315 | | |
| Sample Date | | 02 May 2024 | | |
| Machine Hours | | 9449 | | |
| Oil Hours | | 0 | | |
| Oil Changed | | N/A | | |
| Sample Status | | ATTENTION | | |
| | | | | |
| OIL CONDI | TION | | | |
| Visc @ 100°C | cSt | 13.7 | | |
| Base Number (BN) | mg KOH/g | 8.6 | | |
| Oxidation (PA) | % | 55 | | |
| | | | | |
| CONTAMIN | IATION | | | |
| Water | % | NEG | | |
| Soot % | % | 0.5 | | |
| Nitration (PA) | % | 55 | | |
| Sulfation (PA) | % | 55 | | |
| Glycol | % | NEG | | |
| Fuel | % | <1.0 | | |
| Silicon | ppm | 8 | | |
| Sodium | ppm | 69 | | |
| Potassium | ppm | 2 | | |
| VOLVO | | | | |
| WEAR ME | TALS | | | |
| Iron | ppm | 10 | | |

ARNOLD MACHINERY COMPANY

4323 EAST WINSLOW AVENUE PHOENIX, AZ US 85040 Contact: JAKE ZAYES jzayes@arnoldmachinery.com T: (602)414-1900 F: (602)414-1904

Diagnosis

Check for low coolant level. Resample at the next service interval to monitor.All component wear rates are normal. Sodium and/or potassium levels are high. Test for glycol is negative. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

| WEAR N | METALS | | | |
|------------|--------|-------------|------|--|
| Iron | ppm | 1 0 | | |
| Copper | ppm | 9 | | |
| Lead | ppm | 0 | | |
| Tin | ppm | 0 | | |
| Aluminum | ppm | 2 | | |
| Chromium | ppm | | | |
| Molybdenum | ppm | 15 | | |
| Nickel | ppm | 0 | | |
| Titanium | ppm | 89 | | |
| Silver | ppm | 0 | | |
| Manganese | ppm | □ <1 | | |
| Vanadium | ppm | <1 | | |
| | | | | |

| ADDITIVES | | | | | | | |
|------------|-----|------------|--|--|--|--|--|
| Calcium | ppm | 🔲 1909 | | | | | |
| Magnesium | ppm | 406 | | | | | |
| Zinc | ppm | 1159 | | | | | |
| Phosphorus | ppm | 995 | | | | | |
| Barium | ppm | 0 | | | | | |
| Boron | ppm | 169 | | | | | |

 Depot:
 VOLVO6174

 Unique No:
 11019680

 Signed:
 Sean Felton

 Report Date:
 16 May 2024

Report Id: VOLVO6174 [WUSCAR] 06173627 (Generated: 05/16/2024 17:16:29) Rev: 1

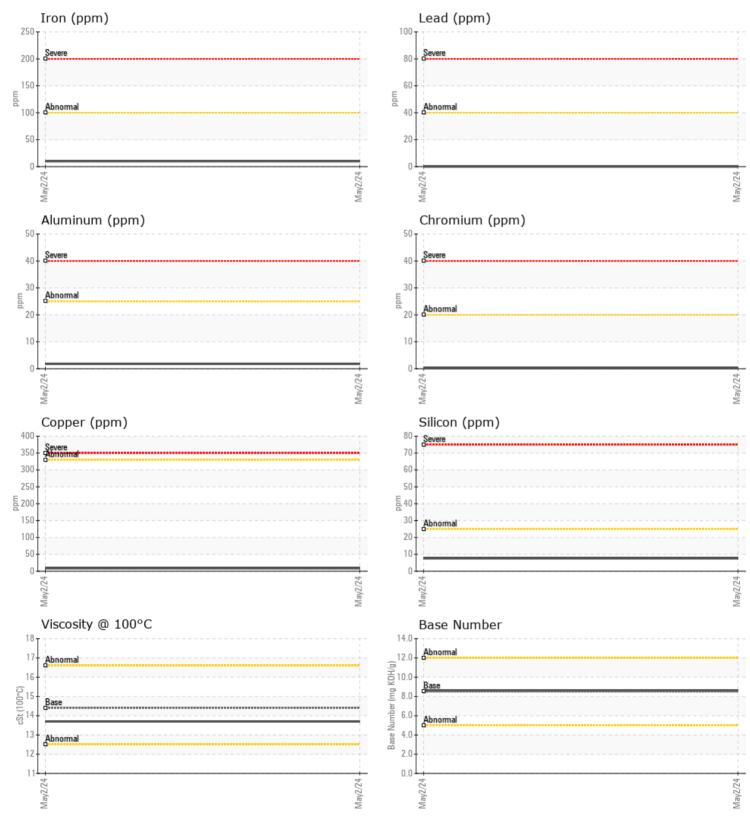
Contact/Location: JAKE ZAYES - VOLVO6174

CONSTRUCTION EQUIPMENT



GRAPHS

VOLVO



Report Id: VOLVO6174 [WUSCAR] 06173627 (Generated: 05/16/2024 17:16:31) Rev: 1

Contact/Location: JAKE ZAYES - VOLVO6174