CONSTRUCTION EQUIPMENT S998 VOLVOL120H 633223 - DIESEL ENGINE



Sample No: VCP424038

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3 Job No: S998

| SAMPLE IN | FORMATION | | | | | |
|------------------|-----------|-------------|--|--|--|--|
| Sample Number | | VCP424038 | | | | |
| Sample Date | | 18 Sep 2023 | | | | |
| Machine Hours | | 546 | | | | |
| Oil Hours | | 0 | | | | |
| Oil Changed | | Changed | | | | |
| Sample Status | | ABNORMAL | | | | |
| | | | | | | |
| OIL CONDITION | | | | | | |
| Visc @ 100°C | cSt | 12.6 | | | | |
| Base Number (BN) | mg KOH/g | 9.7 | | | | |
| Oxidation (PA) | % | 73 | | | | |
| VOLVO | · · - | | | | | |

| CONTAN | MINATION | | | |
|----------------|----------|------------|------|--|
| Soot % | % | 0.3 | | |
| Nitration (PA) | % | 61 | | |
| Sulfation (PA) | % | 58 | | |
| Glycol | % | NEG | | |
| Fuel | % | <1.0 | | |
| Silicon | ppm | 16 | | |
| Sodium | ppm | 4 | | |
| Potassium | ppm | <1 | | |

WFAR METALS

| WEAR P | IC I ALS | | | |
|------------|----------|-------------|------|--|
| Iron | ppm | 45 | | |
| Copper | ppm | 11 | | |
| Lead | ppm | 2 | | |
| Tin | ppm | 4 | | |
| Aluminum | ppm | 🔺 119 | | |
| Chromium | ppm | ■7 | | |
| Molybdenum | ppm | 42 | | |
| Nickel | ppm | | | |
| Titanium | ppm | <1 | | |
| Silver | ppm | □ <1 | | |
| Manganese | ppm | 3 | | |
| Vanadium | ppm | 0 | | |

| ADDITIVES | | | | | |
|------------|-----|-------------|--|--|--|
| Calcium | ppm | 1492 | | | |
| Magnesium | ppm | 746 | | | |
| Zinc | ppm | 1236 | | | |
| Phosphorus | ppm | 1016 | | | |
| Barium | ppm | 11 | | | |
| Boron | ppm | 59 | | | |
| | | | | | |



VCES- VOLVO CONSTRUCTION EQUIPMENT

8594 FRUITRIDGE ROAD SACRAMENTO, CA US 95826 Contact: RAY KRANZUSCH ray.kranzusch@vcesvolvo.com T: F:

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.The aluminum level is abnormal. All other metal levels are typical for a new component breaking in. 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 acceptable for the time in service.

 Depot:
 VOLVO4485

 Unique No:
 10669353

 Signed:
 Jonathan Hester

 Report Date:
 28 Sep 2023

Report Id: VOLVO4485 [WUSCAR] 05962802 (Generated: 10/04/2023 22:55:59) Rev: 1

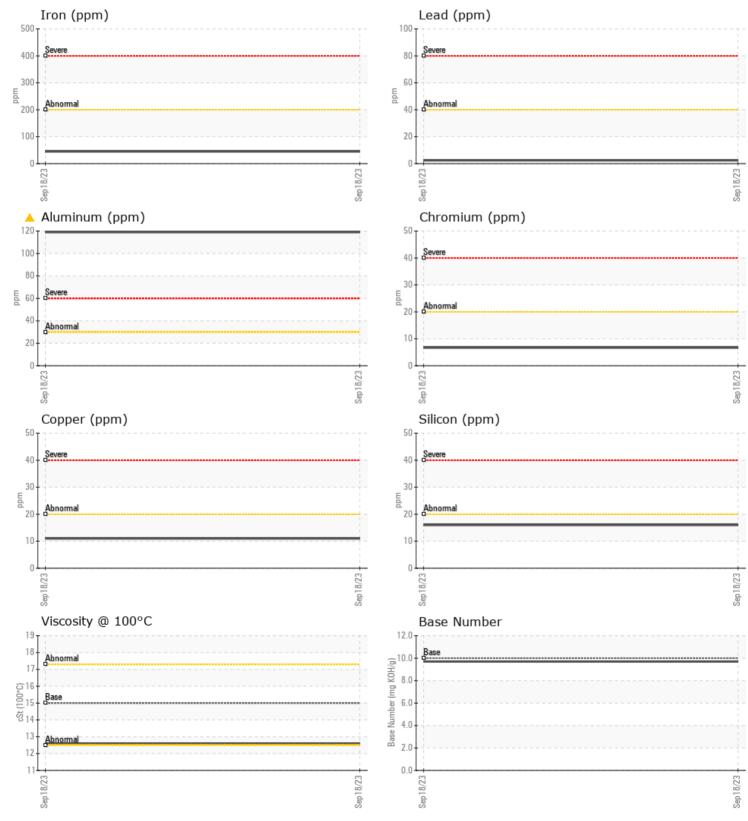
Contact/Location: RAY KRANZUSCH - VOLVO4485

CONSTRUCTION EQUIPMENT



GRAPHS

VOLVO



Report Id: VOLVO4485 [WUSCAR] 05962802 (Generated: 10/04/2023 22:56:02) Rev: 1

Contact/Location: RAY KRANZUSCH - VOLVO4485