CONSTRUCTION EQUIPMENT 661545 VOLVO L 120 633396 - DIESEL ENGINE



 Sample No:
 VCP439085

 Oil Type:
 VOLVO ULT

VOLVO

volvo ultra diesel engine oil 15w40 vds-3

Job No:

661545

| | NFORMATION | | | |
|------------------|------------|-------------|------|--|
| Sample Number | | VCP439085 | | |
| Sample Date | | 25 Jan 2024 | | |
| Machine Hours | | 1010 | | |
| Oil Hours | | 0 | | |
| Oil Changed | | Changed | | |
| Sample Status | | ABNORMAL | | |
| | | | | |
| OIL CONDI | TION | | | |
| Visc @ 100°C | cSt | 12.5 | | |
| Base Number (BN) | mg KOH/g | 7.7 | | |
| Oxidation (PA) | % | 82 | | |
| | | | | |
| CONTAMI | NATION | | | |
| Water | % | NEG | | |
| Soot % | % | 0.6 | | |
| Nitration (PA) | % | 71 | | |
| Sulfation (PA) | % | 63 | | |
| Glycol | % | NEG | | |
| Fuel | % | <1.0 | | |
| Silicon | ppm | A 32 | | |
| Sodium | ppm | 5 | | |
| Potassium | ppm | 4 | | |
| | | | | |
| WEAR ME | | | | |

| Iron | ppm | 38 | | |
|------------|-----|------------|------|------|
| Copper | ppm | 4 8 | | |
| Lead | ppm | 8 | | |
| Tin | ppm | 6 | | |
| Aluminum | ppm | 3 0 | | |
| Chromium | ppm | 2 | | |
| Molybdenum | ppm | 40 | | |
| Nickel | ppm | | | |
| Titanium | ppm | <1 | | |
| Silver | ppm | ■1 | | |
| Manganese | ppm | 3 | | |
| Vanadium | ppm | <1 | | |

| ADDITI | VES | | | |
|------------|-----|-------------|------|--|
| Calcium | ppm | 1513 | | |
| Magnesium | ppm | 556 | | |
| Zinc | ppm | 1144 | | |
| Phosphorus | ppm | 942 | | |
| Barium | ppm | 25 | | |
| Boron | ppm | 25 | | |



ORANGE COUNTY SOLID WASTE

5901 YOUNG PINE ROAD ORLANDO, FL US 32829 Contact: MICHAEL BEEBE michael.beebe@ocfl.net T: (407)836-6652 F: (407)836-6650

Diagnosis

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.The copper level is abnormal. All other component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. 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:ORAORLUnique No:10856387Signed:Don BaldridgeReport Date:31 Jan 2024

Report Id: ORAORL [WUSCAR] 06074296 (Generated: 02/01/2024 16:58:30) Rev: 1

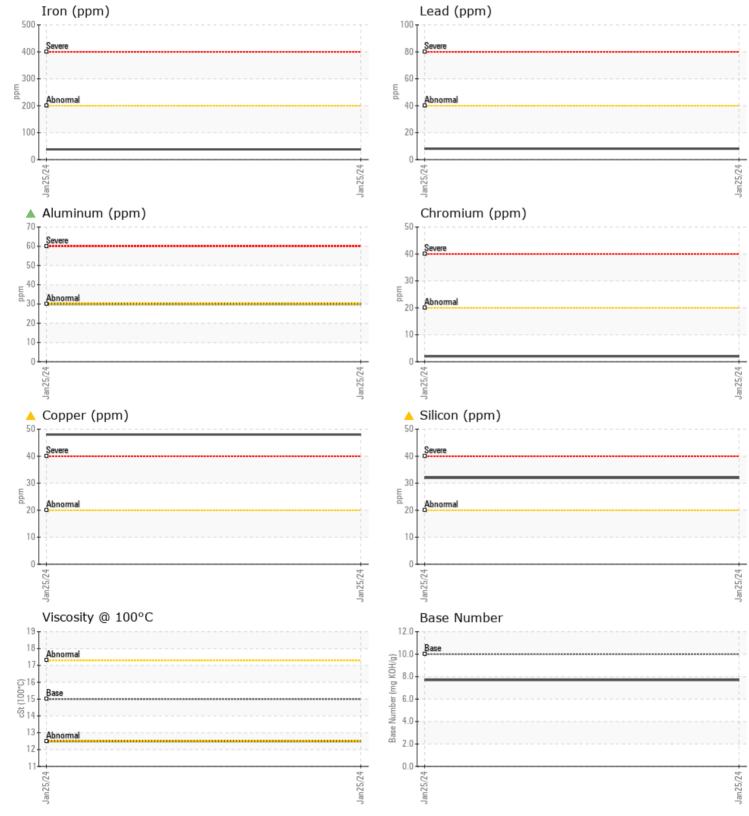
Contact/Location: MICHAEL BEEBE - ORAORL

CONSTRUCTION EQUIPMENT



GRAPHS

VOLVO



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Contact/Location: MICHAEL BEEBE - ORAORL