OIL ANALYSIS REPORT

VOLVO PENTA 351188 - DIESEL ENGINE

| Sample No: | VPA059074 |
|------------|-----------|
| Oil Type: | NOT GIVEN |

SAMPLE INFORMATION

| Sample Number | | VPA059074 | | |
|------------------|----------|-------------|------|--|
| Sample Date | | 27 Sep 2023 | | |
| Machine Hours | | 590 | | |
| Oil Hours | | 0 | | |
| Oil Changed | | N/A | | |
| Sample Status | | NORMAL | | |
| | | | | |
| OIL CONDITION | | | | |
| Visc @ 100°C | cSt | 13.8 | | |
| Base Number (BN) | mg KOH/g | 9.4 | | |
| Oxidation (PA) | % | 61 | | |
| CONTAMINATION | | | | |
| LONTAMINATION | | | | |
| Soot % | % | 0.1 | | |
| Nitration (PA) | % | 41 | | |
| Sulfation (PA) | % | 60 | | |
| Glycol | % | NEG | | |
| Fuel | % | <1.0 | | |
| Silicon | ppm | 7 | | |
| Sodium | ppm | ■ <1 | | |
| Potassium | ppm | ∎1 | | |
| | | | | |

WEAR METALS

| Iron | ppm | 3 | | |
|------------|-----|------------|------|--|
| Copper | ppm | 2 | | |
| Lead | ppm | ■ <1 | | |
| Tin | ppm | | | |
| Aluminum | ppm | 4 | | |
| Chromium | ppm | 0 | | |
| Molybdenum | ppm | 114 | | |
| Nickel | ppm | 0 | | |
| Titanium | ppm | 0 | | |
| Silver | ppm | 0 | | |
| Manganese | ppm | <1 | | |
| Vanadium | ppm | <1 | | |

ADDITIVES

| Calcium | ppm | 1388 | | |
|------------|-----|------|------|--|
| Magnesium | ppm | 628 | | |
| Zinc | ppm | 822 | | |
| Phosphorus | ppm | 670 | | |
| Barium | ppm | 0 | | |
| Boron | ppm | 373 | | |

MARINE DIESEL SERVICES INC

1711 WHITTIER AVE, SUITE B COSTA MESA, CA US 92627 Contact: BEN ALMAZAN marinedieselservices@outlook.com T: (949)612-8180 F: x:

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.

 Depot:
 VP288530

 Unique No:
 10671634

 Signed:
 Sean Felton

 Report Date:
 02 Oct 2023

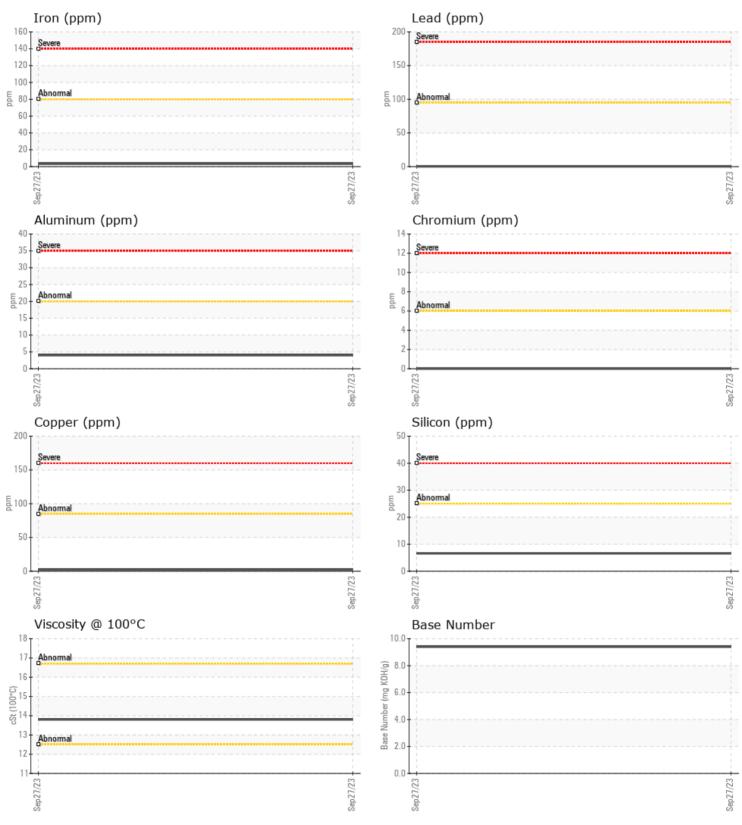
Contact/Location: BEN ALMAZAN - VP288530



OIL ANALYSIS REPORT



GRAPHS



Report Id: VP288530 [WUSCAR] 05965083 (Generated: 10/06/2023 13:40:50) Rev: 1

Contact/Location: BEN ALMAZAN - VP288530