[[TITUS]] VOLVO PENTA A1113956 - STARBOARD DIESEL ENGINE

Sample No: VPA043940
Oil Type: VOLVO

Zinc

Barium

Boron

Phosphorus

ppm

ppm

ppm

ppm

781

683

0

59

| SAMPLE IN | IFORMATI | ON | | | |
|------------------|----------|--------------|--|--|--|
| Sample Number | | VPA043940 | | | |
| Sample Date | | 02 Dec 2021 | | | |
| Machine Hours | | 240 | | | |
| Oil Hours | | 240 | | | |
| Oil Changed | | N/A | | | |
| Sample Status | | NORMAL | | | |
| | | | | | |
| OIL COND | ITION | | | | |
| Visc @ 100°C | cSt | 14.1 | | | |
| Base Number (BN) | mg KOH/g | ■10.8 | | | |
| Oxidation (PA) | % | 65 | | | |
| CONTAMINATION | | | | | |
| | | | | | |
| Water | % | NEG | | | |
| Soot % | % | 0.2 | | | |
| Nitration (PA) | % | 48 | | | |
| Sulfation (PA) | % | 58 | | | |
| Glycol | % | NEG | | | |
| Fuel | % | <1.0 | | | |
| Silicon | ppm | 7 | | | |
| Sodium | ppm | ■3 | | | |
| Potassium | ppm | 1 | | | |
| WEAR METALS | | | | | |
| Iron | ppm | ■ 9 | | | |
| Copper | ppm | ■3 | | | |
| Lead | ppm | 2 | | | |
| Tin | ppm | 1 | | | |
| Aluminum | ppm | 1 | | | |
| Chromium | ppm | <u> </u> | | | |
| Molybdenum | ppm | 1 9 | | | |
| Nickel | ppm | <1 | | | |
| Titanium | ppm | ■ <1 | | | |
| Silver | ppm | ■ <1 | | | |
| Manganese | ppm | <1 | | | |
| Vanadium | ppm | 0 | | | |
| ADDITIVES | | | | | |
| Calcium | | 1481 | | | |
| | ppm | | | | |
| Magnesium | ppm | ■ 553 | | | |

15:18:47) Rev: 1

Diesel Services of America, Inc.

2501 West State Road 84 FORT LAUDERDALE, FL

US 33312

Contact: Dan Rosas dan@dieselservicesofamerica.com

T:

F:

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 acceptable for the time in service.

Depot: VP509836
Unique No: 9764017
Signed: Don Baldridge
Report Date: 07 Dec 2021

Contact/Location: Dan Rosas - VP509836

