OIL ANALYSIS REPORT

FRAISER YACHT SALES 502972 VOLVO PENTA 2013650278 - STARBOARD DIESEL ENGINE

Sample No: VPA062851

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

| Sample Number | | VPA062851 | | |
|------------------|----------|-------------|------|--|
| Sample Date | | 09 Apr 2024 | | |
| Machine Hours | | 559 | | |
| Oil Hours | | 85 | | |
| Oil Changed | | Not Changd | | |
| Sample Status | | NORMAL | | |
| | | | | |
| OIL CONDITION | | | | |
| /isc @ 100°C | cSt | 12.8 | | |
| Base Number (BN) | mg KOH/g | 10.2 | | |
| Oxidation (PA) | % | 54 | | |
| CONTAMINATION | | | | |
| CONTAMINATION | | | | |
| Water | % | NEG | | |
| Soot % | % | 0.1 | | |
| Nitration (PA) | % | 42 | | |
| Sulfation (PA) | % | 50 | | |
| Glycol | % | NEG | | |
| Fuel | % | <1.0 | | |
| Silicon | ppm | 4 | | |
| Sodium | ppm | 0 | | |
| Potassium | ppm | 0 | | |
| WEAR METALS | | | | |
| Iron | ppm | 3 | | |
| Copper | ppm | 0 | | |
| Lead | ppm | 0 | | |
| Tin | ppm | □ <1 | | |
| Aluminum | ppm | <1 | | |
| Chromium | ppm | 0 | | |
| Volybdenum | ppm | 59 | | |
| Nickel | ppm | 0 | | |
| Titanium | ppm | 0 | | |
| Silver | ppm | 0 | | |
| Manganese | ppm | □ <1 | | |
| /anadium | ppm | 0 | | |
| ADDITIVES | | | | |
| | | | | |
| Calcium | ppm | 1034 | | |
| Magnesium | ppm | 936 | | |
| Zinc | ppm | 1172 | | |
| Phosphorus | ppm | 1003 | | |
| Barium | ppm | 0 | | |
| Boron | ppm | 8 | | |
| BOION | ppin | 0 | | |

or Marine LLC - Coastal Marine - 152124 0 11th Ave. NW TTLE, WA 98107 tact: WILLOW YANARELLA vice@coastalmarineengine.com 206)784-3703 206)784-8823

agnosis

sample at the next service interval monitor.All component wear rates normal. There is no indication of contamination in the oil. The BN sult indicates that there is suitable alinity remaining in the oil. The ndition of the oil is acceptable for time in service.

Contact/Location: WILLOW YANARELLA - VP794951 Report Id: VP794951 [WUSCAR] 06144855 (Generated: 04/16/2024 10:00:59) Rev: 1

Page 1 of 2

VP794951

10969663

Report Date:

Don Baldridge

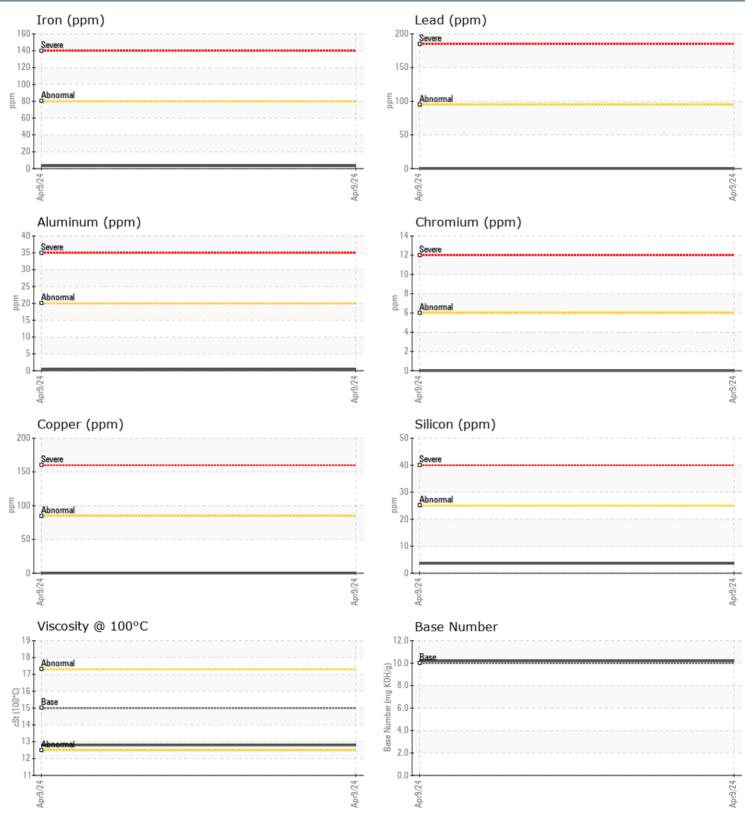
13 Apr 2024



OIL ANALYSIS REPORT



GRAPHS



Report Id: VP794951 [WUSCAR] 06144855 (Generated: 04/16/2024 10:01:01) Rev: 1

Contact/Location: WILLOW YANARELLA - VP794951