

OIL ANALYSIS REPORT

Area STILL WATERS VOLVO PENTA 2071116806 (S/N 2071116807)

Starboard Main Engine

Fluid DIESEL ENGINE OIL SAE 15W40 (7 GAL)

Recommendation

Resample at the next service interval to monitor.

Wear

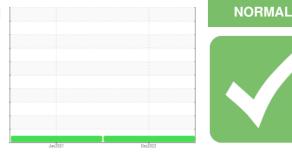
All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



Sample Rating Trend

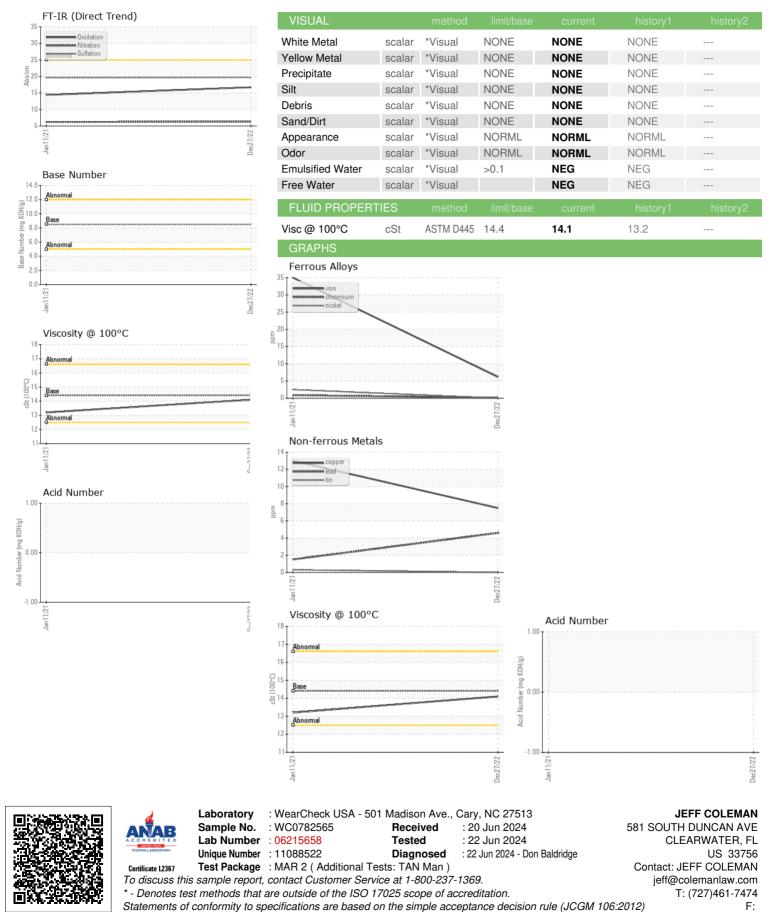


| SAMPLE INFORM | IATION | method | limit/base | current | history1 | history2 |
|------------------|----------|-------------|------------|-------------|-------------|----------|
| Sample Number | | Client Info | | WC0782565 | VPA031626 | |
| Sample Date | | Client Info | | 27 Dec 2022 | 11 Jan 2021 | |
| Machine Age | hrs | Client Info | | 826 | 794 | |
| Oil Age | hrs | Client Info | | 0 | 0 | |
| Oil Changed | | Client Info | | Changed | N/A | |
| Sample Status | | | | NORMAL | NORMAL | |
| CONTAMINATION | N | method | limit/base | current | history1 | history2 |
| Fuel | | WC Method | >4.0 | <1.0 | <1.0 | |
| Water | | WC Method | >0.1 | NEG | NEG | |
| Glycol | | WC Method | | NEG | NEG | |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >75 | 6 | 35 | |
| Chromium | ppm | ASTM D5185m | >8 | <1 | <1 | |
| Nickel | ppm | ASTM D5185m | >2 | 0 | 2 | |
| Titanium | ppm | ASTM D5185m | >3 | <1 | 0 | |
| Silver | ppm | ASTM D5185m | >2 | 0 | <1 | |
| Aluminum | ppm | ASTM D5185m | >15 | 1 | 0 | |
| Lead | ppm | ASTM D5185m | >18 | 5 | 2 | |
| Copper | ppm | ASTM D5185m | >80 | 8 | 13 | |
| Tin | ppm | ASTM D5185m | >14 | 0 | <1 | |
| Antimony | ppm | ASTM D5185m | | | 0 | |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | |
| Cadmium | ppm | ASTM D5185m | | 0 | 0 | |
| ADDITIVES | | method | limit/base | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | 250 | 181 | 5 | |
| Barium | ppm | ASTM D5185m | 10 | 0 | 0 | |
| Molybdenum | ppm | ASTM D5185m | 100 | 6 | 50 | |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | |
| Magnesium | ppm | ASTM D5185m | 450 | 94 | 759 | |
| Calcium | ppm | ASTM D5185m | 3000 | 2394 | 1114 | |
| Phosphorus | ppm | ASTM D5185m | 1150 | 1073 | 947 | |
| Zinc | ppm | ASTM D5185m | 1350 | 1334 | 1072 | |
| Sulfur | ppm | ASTM D5185m | 4250 | 4504 | 2558 | |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >20 | 3 | 4 | |
| Sodium | ppm | ASTM D5185m | >158 | 4 | 4 | |
| Potassium | ppm | ASTM D5185m | >20 | 6 | 1 | |
| INFRA-RED | | method | limit/base | current | history1 | history2 |
| Soot % | % | *ASTM D7844 | | 0.1 | 0.4 | |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 6.3 | 6.2 | |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 19.7 | 19.6 | |
| FLUID DEGRADA | TION | method | limit/base | current | history1 | history2 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 16.7 | 14.4 | |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 8.5 | 8.8 | | |

Contact/Location: JEFF COLEMAN - JEFCLE



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