

OIL ANALYSIS REPORT

VOLVO PENTA

TELESE TG SURVEY VOLVO PENTA 3940020473 - PORT IPS

Sample No: VPA041210

Oil Type: VOLVO PENTA GL-5 SAE 75W90

SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-------------|-------------|-------------|
| Sample Number | VPA041210 | VPA041234 | VPA037181 | VPA026194 |
| Sample Date | 24 Aug 2023 | 28 Mar 2023 | 07 Apr 2022 | 11 Sep 2020 |
| Machine Hours | 677 | 631 | 603 | 535 |
| Oil Hours | 0 | 0 | 0 | 16 |
| Oil Changed | Not Changd | Not Changd | Changed | Not Changd |
| Sample Status | SEVERE | ABNORMAL | ATTENTION | NORMAL |

Suncoast Diesel Marine Inc.

610 Mount Vernan St

OLDSMAR, FL

US 34677

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OIL CONDITION

| | | | | | |
|-------------|-----|-------|-------|-------|-------|
| Visc @ 40°C | cSt | ■ 111 | ■ 107 | ■ 102 | ■ 104 |
|-------------|-----|-------|-------|-------|-------|

CONTAMINATION

| | | | | | |
|-----------|-----|--------|------|------|---------|
| Water | % | ● 3.07 | --- | --- | <0.0500 |
| Silicon | ppm | ▲ 23 | 14 | 16 | 22 |
| Sodium | ppm | ■ 358 | ■ 39 | ■ 14 | ■ 10 |
| Potassium | ppm | ■ 13 | ■ 3 | ■ 0 | ■ 7 |

WEAR METALS

| | | | | | |
|------------|-----|-------|-------|-------|-------|
| PQ | | ■ 29 | ■ 17 | ■ 29 | ■ 20 |
| Iron | ppm | ▲ 344 | ▲ 230 | ▲ 305 | ■ 116 |
| Copper | ppm | ■ 29 | ■ 16 | ■ 33 | ■ 13 |
| Lead | ppm | <1 | <1 | 0 | 0 |
| Tin | ppm | <1 | 0 | <1 | 0 |
| Aluminum | ppm | 5 | <1 | 2 | <1 |
| Chromium | ppm | ■ 9 | ■ 4 | ■ 3 | ■ 1 |
| Molybdenum | ppm | ■ 1 | ■ <1 | ■ <1 | ■ 0 |
| Nickel | ppm | ■ 7 | ■ 2 | ■ 3 | ■ 1 |
| Titanium | ppm | 0 | 0 | 0 | 0 |
| Silver | ppm | <1 | 0 | 0 | 0 |
| Manganese | ppm | ■ 6 | ■ 4 | ■ 6 | ■ 2 |
| Vanadium | ppm | <1 | 0 | 0 | 0 |

ADDITIVES

| | | | | | |
|------------|-----|--------|--------|--------|--------|
| Calcium | ppm | ■ 38 | ■ 23 | ■ 16 | ■ 6 |
| Magnesium | ppm | ■ 69 | 25 | 36 | ■ 21 |
| Zinc | ppm | ■ 48 | ■ 16 | ■ 30 | ■ 12 |
| Phosphorus | ppm | ■ 1388 | ■ 1367 | ■ 1275 | ■ 1314 |
| Barium | ppm | ■ 1 | ■ 0 | ■ 0 | ■ 0 |
| Boron | ppm | ■ 356 | ■ 261 | ■ 223 | ■ 295 |

Diagnosis

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Gear wear is indicated. There is a high concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.

Depot: VP945077

Unique No: 10620957

Signed: Angela Borella

Report Date: 29 Aug 2023

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GRAPHS

