

OIL ANALYSIS REPORT



VOLVO PENTA 3940024893 - STARBOARD IPS

Sample No: VPA051549

Oil Type: {unknown}

SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-------------|-------------|-----|
| Sample Number | VPA051549 | VPA047740 | VPA014568 | --- |
| Sample Date | 13 Feb 2024 | 25 Apr 2023 | 01 Nov 2022 | --- |
| Machine Hours | 500 | 2800 | 1500 | --- |
| Oil Hours | 0 | 0 | 300 | --- |
| Oil Changed | Not Changd | Not Changd | Changed | --- |
| Sample Status | ABNORMAL | NORMAL | ATTENTION | --- |

FDDA FT PIERCE - POWER CENTER

FORT PIERCE, FL

US

Contact: KYLE GRASER

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OIL CONDITION

| | | | | | |
|-------------|-----|-------|-------|-------|-----|
| Visc @ 40°C | cSt | █ 108 | █ 106 | █ 104 | --- |
|-------------|-----|-------|-------|-------|-----|

CONTAMINATION

| | | | | | |
|-----------|-----|---------|-----|------|-----|
| Water | % | ▲ 0.262 | NEG | NEG | --- |
| Silicon | ppm | █ 18 | █ 1 | █ 16 | --- |
| Sodium | ppm | █ 2 | █ 0 | █ 9 | --- |
| Potassium | ppm | █ 2 | █ 1 | █ 2 | --- |

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. Resample at the next service interval to monitor. All component wear rates are normal. There is a light concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.

WEAR METALS

| | | | | | |
|------------|-----|-------|------|-------|-----|
| PQ | | █ 16 | █ 7 | █ 18 | --- |
| Iron | ppm | █ 141 | █ <1 | ▲ 206 | --- |
| Copper | ppm | █ 17 | █ 0 | █ 24 | --- |
| Lead | ppm | <1 | 0 | 0 | --- |
| Tin | ppm | <1 | 0 | 0 | --- |
| Aluminum | ppm | █ 2 | 0 | █ 4 | --- |
| Chromium | ppm | █ 2 | █ 0 | █ 1 | --- |
| Molybdenum | ppm | █ 3 | <1 | █ 3 | --- |
| Nickel | ppm | █ 3 | █ 0 | █ 2 | --- |
| Titanium | ppm | <1 | 0 | 0 | --- |
| Silver | ppm | <1 | 0 | 0 | --- |
| Manganese | ppm | █ 4 | 0 | █ 5 | --- |
| Vanadium | ppm | <1 | 0 | 0 | --- |

ADDITIVES

| | | | | | |
|------------|-----|--------|------|--------|-----|
| Calcium | ppm | █ 13 | 4 | █ 40 | --- |
| Magnesium | ppm | <1 | 4 | █ 11 | --- |
| Zinc | ppm | █ 20 | 3 | █ 18 | --- |
| Phosphorus | ppm | █ 1559 | 1299 | █ 1186 | --- |
| Barium | ppm | 0 | 0 | █ 0 | --- |
| Boron | ppm | █ 339 | 354 | █ 250 | --- |

Depot: VP208659

Unique No: 10883369

Signed: Doug Bogart

Report Date: 16 Feb 2024

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**VOLVO
PENTA**

GRAPHS

