

OIL ANALYSIS REPORT

VOLVO PENTA

TODD EVANS 7717359 VOLVO PENTA 3194001192 - STARBOARD IPS

Sample No: VPA041689

Oil Type: VOLVO PENTA GL-5 SAE 75W90

SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-------------|-----|-----|
| Sample Number | VPA041689 | VPA034671 | --- | --- |
| Sample Date | 13 Oct 2023 | 25 Aug 2020 | --- | --- |
| Machine Hours | 631 | 453 | --- | --- |
| Oil Hours | 178 | 0 | --- | --- |
| Oil Changed | Changed | Changed | --- | --- |
| Sample Status | SEVERE | ATTENTION | --- | --- |

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OIL CONDITION

| | | | | | |
|-------------|-----|-------|-------|-----|-----|
| Visc @ 40°C | cSt | ■ 108 | ■ 102 | --- | --- |
|-------------|-----|-------|-------|-----|-----|

CONTAMINATION

| | | | | | |
|-----------|-----|--------|------|-----|-----|
| Water | % | ● 1.90 | --- | --- | --- |
| Silicon | ppm | ▲ 21 | 33 | --- | --- |
| Sodium | ppm | ■ 176 | ■ 16 | --- | --- |
| Potassium | ppm | ■ 8 | ■ 2 | --- | --- |

WEAR METALS

| | | | | | |
|------------|-----|-------|-------|-----|-----|
| PQ | | ■ 16 | ■ 23 | --- | --- |
| Iron | ppm | ▲ 268 | ▲ 276 | --- | --- |
| Copper | ppm | ■ 19 | ■ 26 | --- | --- |
| Lead | ppm | <1 | <1 | --- | --- |
| Tin | ppm | <1 | <1 | --- | --- |
| Aluminum | ppm | ■ 12 | 9 | --- | --- |
| Chromium | ppm | ■ 2 | ■ 2 | --- | --- |
| Molybdenum | ppm | ■ <1 | ■ 0 | --- | --- |
| Nickel | ppm | ■ 2 | ■ 2 | --- | --- |
| Titanium | ppm | <1 | 0 | --- | --- |
| Silver | ppm | 0 | <1 | --- | --- |
| Manganese | ppm | ■ 4 | ■ 5 | --- | --- |
| Vanadium | ppm | 0 | 0 | --- | --- |

ADDITIVES

| | | | | | |
|------------|-----|--------|--------|-----|-----|
| Calcium | ppm | ■ 16 | ■ 5 | --- | --- |
| Magnesium | ppm | ■ 32 | ■ 19 | --- | --- |
| Zinc | ppm | ■ 58 | ■ 46 | --- | --- |
| Phosphorus | ppm | ■ 1326 | ■ 1322 | --- | --- |
| Barium | ppm | ■ 10 | ■ 0 | --- | --- |
| Boron | ppm | ■ 313 | ■ 267 | --- | --- |

Diagnosis

We advise that you check for the source of water entry. Oil and filter change at the time of sampling has been noted. 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: VP99031103
Unique No: 10710209
Signed: Jonathan Hester
Report Date: 26 Oct 2023

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PENTA**

GRAPHS

