

OIL ANALYSIS REPORT

VOLVO PENTA

JOHN ARENDSHORST KOHLER 33JGGMJL0003 - GENSET

Sample No: VPA049879

Oil Type: NOT GIVEN

SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VPA049879 | --- | --- | --- |
| Sample Date | 15 Dec 2023 | --- | --- | --- |
| Machine Hours | 17 | --- | --- | --- |
| Oil Hours | 17 | --- | --- | --- |
| Oil Changed | Not Changd | --- | --- | --- |
| Sample Status | SEVERE | --- | --- | --- |

YACHT BASIN MARINA

1866 OTTAWA BEACH RD

HOLLAND, MI

US 49424

Contact: OIL SAMPLE/PART

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F:

OIL CONDITION

| | | | | |
|---------------------------|------|-----|-----|-----|
| Base Number (BN) mg KOH/g | 48.5 | --- | --- | --- |
| Oxidation (PA) % | 263 | --- | --- | --- |

CONTAMINATION

| | | | | |
|------------------|------|-----|-----|-----|
| Water % | 28.0 | --- | --- | --- |
| Soot % | 0.9 | --- | --- | --- |
| Nitration (PA) % | 828 | --- | --- | --- |
| Sulfation (PA) % | 0 | --- | --- | --- |
| Glycol % | NEG | --- | --- | --- |
| Fuel % | <1.0 | --- | --- | --- |
| Silicon ppm | 94 | --- | --- | --- |
| Sodium ppm | 16 | --- | --- | --- |
| Potassium ppm | 4 | --- | --- | --- |

WEAR METALS

| | | | | |
|----------------|----|-----|-----|-----|
| Iron ppm | 75 | --- | --- | --- |
| Copper ppm | 6 | --- | --- | --- |
| Lead ppm | 5 | --- | --- | --- |
| Tin ppm | 8 | --- | --- | --- |
| Aluminum ppm | 7 | --- | --- | --- |
| Chromium ppm | 2 | --- | --- | --- |
| Molybdenum ppm | <1 | --- | --- | --- |
| Nickel ppm | 1 | --- | --- | --- |
| Titanium ppm | 2 | --- | --- | --- |
| Silver ppm | <1 | --- | --- | --- |
| Manganese ppm | 5 | --- | --- | --- |
| Vanadium ppm | <1 | --- | --- | --- |

ADDITIVES

| | | | | |
|----------------|------|-----|-----|-----|
| Calcium ppm | 1116 | --- | --- | --- |
| Magnesium ppm | 465 | --- | --- | --- |
| Zinc ppm | 873 | --- | --- | --- |
| Phosphorus ppm | 818 | --- | --- | --- |
| Barium ppm | 0 | --- | --- | --- |
| Boron ppm | 113 | --- | --- | --- |

Diagnosis

We advise that you check for the source of water entry. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition. Please note that there was too much water present in the oil to perform a viscosity test. All component wear rates are normal. Appearance is milky. There is a high concentration of water present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material. The oil is no longer serviceable due to the presence of contaminants.

Depot: VP718610

Unique No: 10802507

Signed: Jonathan Hester

Report Date: 26 Dec 2023

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GRAPHS

