

OIL ANALYSIS REPORT

**VOLVO
PENTA**

VOLVO PENTA A290211 - PORT DIESEL ENGINE

Sample No: VPA045563

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VPA045563 | --- | --- | --- |
| Sample Date | 13 Oct 2023 | --- | --- | --- |
| Machine Hours | 760 | --- | --- | --- |
| Oil Hours | 0 | --- | --- | --- |
| Oil Changed | N/A | --- | --- | --- |
| Sample Status | NORMAL | --- | --- | --- |

OIL CONDITION

| | | | | | |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C | cSt | █ 13.4 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | █ 10.0 | --- | --- | --- |
| Oxidation (PA) | % | 57 | --- | --- | --- |

CONTAMINATION

| | | | | | |
|----------------|-----|-------|-----|-----|-----|
| Soot % | % | █ 0.4 | --- | --- | --- |
| Nitration (PA) | % | 53 | --- | --- | --- |
| Sulfation (PA) | % | 53 | --- | --- | --- |
| Glycol | % | NEG | --- | --- | --- |
| Fuel | % | <1.0 | --- | --- | --- |
| Silicon | ppm | █ 5 | --- | --- | --- |
| Sodium | ppm | █ 1 | --- | --- | --- |
| Potassium | ppm | █ 1 | --- | --- | --- |

WEAR METALS

| | | | | | |
|------------|-----|------|-----|-----|-----|
| Iron | ppm | █ 8 | --- | --- | --- |
| Copper | ppm | █ 2 | --- | --- | --- |
| Lead | ppm | █ 10 | --- | --- | --- |
| Tin | ppm | █ 2 | --- | --- | --- |
| Aluminum | ppm | █ 2 | --- | --- | --- |
| Chromium | ppm | █ <1 | --- | --- | --- |
| Molybdenum | ppm | █ 64 | --- | --- | --- |
| Nickel | ppm | █ 1 | --- | --- | --- |
| Titanium | ppm | █ 0 | --- | --- | --- |
| Silver | ppm | █ 0 | --- | --- | --- |
| Manganese | ppm | █ <1 | --- | --- | --- |
| Vanadium | ppm | 0 | --- | --- | --- |

ADDITIVES

| | | | | | |
|------------|-----|--------|-----|-----|-----|
| Calcium | ppm | █ 1125 | --- | --- | --- |
| Magnesium | ppm | █ 1079 | --- | --- | --- |
| Zinc | ppm | █ 1495 | --- | --- | --- |
| Phosphorus | ppm | █ 1202 | --- | --- | --- |
| Barium | ppm | █ 0 | --- | --- | --- |
| Boron | ppm | █ 2 | --- | --- | --- |

SUNCOAST DIESEL MARINE

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US 34240
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Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot: VP705283
Unique No: 10708794
Signed: Doug Bogart
Report Date: 25 Oct 2023

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GRAPHS

