

OIL ANALYSIS REPORT

VOLVO PENTA

VOLVO PENTA 7011471209 - STARBOARD DIESEL ENGINE

Sample No: VPA047045

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VPA047045 | --- | --- | --- |
| Sample Date | 13 Dec 2023 | --- | --- | --- |
| Machine Hours | 332 | --- | --- | --- |
| Oil Hours | 0 | --- | --- | --- |
| Oil Changed | N/A | --- | --- | --- |
| Sample Status | ABNORMAL | --- | --- | --- |

SUNCOAST DIESEL MARINE

6341 PORTER ROAD, SUITE 6
SARASOTA, FL
US 34240
Contact: SERVICE MANAGER
info@suncoastdmi.com
T: (941)342-0033
F:

OIL CONDITION

| | | | | | |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C | cSt | ▲ 11.9 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | ■ 9.0 | --- | --- | --- |
| Oxidation (PA) | % | ■ 62 | --- | --- | --- |

CONTAMINATION

| | | | | | |
|----------------|-----|-------|-----|-----|-----|
| Water | % | NEG | --- | --- | --- |
| Soot % | % | ■ 0.4 | --- | --- | --- |
| Nitration (PA) | % | ■ 63 | --- | --- | --- |
| Sulfation (PA) | % | ■ 57 | --- | --- | --- |
| Glycol | % | NEG | --- | --- | --- |
| Fuel | % | ▲ 4.5 | --- | --- | --- |
| Silicon | ppm | ■ 9 | --- | --- | --- |
| Sodium | ppm | ■ 0 | --- | --- | --- |
| Potassium | ppm | ■ 0 | --- | --- | --- |

WEAR METALS

| | | | | | |
|------------|-----|------|-----|-----|-----|
| Iron | ppm | ■ 17 | --- | --- | --- |
| Copper | ppm | ■ 34 | --- | --- | --- |
| Lead | ppm | ■ <1 | --- | --- | --- |
| Tin | ppm | ■ 1 | --- | --- | --- |
| Aluminum | ppm | ■ 1 | --- | --- | --- |
| Chromium | ppm | ■ <1 | --- | --- | --- |
| Molybdenum | ppm | ■ 60 | --- | --- | --- |
| Nickel | ppm | ■ <1 | --- | --- | --- |
| Titanium | ppm | ■ 0 | --- | --- | --- |
| Silver | ppm | ■ <1 | --- | --- | --- |
| Manganese | ppm | ■ <1 | --- | --- | --- |
| Vanadium | ppm | ■ 0 | --- | --- | --- |

ADDITIVES

| | | | | | |
|------------|-----|--------|-----|-----|-----|
| Calcium | ppm | ■ 1020 | --- | --- | --- |
| Magnesium | ppm | ■ 943 | --- | --- | --- |
| Zinc | ppm | ■ 1272 | --- | --- | --- |
| Phosphorus | ppm | ■ 1070 | --- | --- | --- |
| Barium | ppm | ■ 0 | --- | --- | --- |
| Boron | ppm | ■ 2 | --- | --- | --- |

Diagnosis

We advise that you check the fuel injection system. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

Depot: VP705283
Unique No: 10802514
Signed: Jonathan Hester
Report Date: 26 Dec 2023

OIL ANALYSIS REPORT

**VOLVO
PENTA**

GRAPHS

