

OIL ANALYSIS REPORT

VOLVO PENTA

40341 VOLVO PENTA 2071182978 - STARBOARD DIESEL ENGINE

Sample No: VPA051077

Oil Type: {unknown}

SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VPA051077 | --- | --- | --- |
| Sample Date | 12 Jun 2024 | --- | --- | --- |
| Machine Hours | 0 | --- | --- | --- |
| Oil Hours | 0 | --- | --- | --- |
| Oil Changed | N/A | --- | --- | --- |
| Sample Status | NORMAL | --- | --- | --- |

OIL CONDITION

| | | | | | |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C | cSt | █ 13.5 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | █ 7.5 | --- | --- | --- |
| Oxidation (PA) | % | 62 | --- | --- | --- |

CONTAMINATION

| | | | | | |
|----------------|-----|-------|-----|-----|-----|
| Water | % | NEG | --- | --- | --- |
| Soot % | % | █ 0.2 | --- | --- | --- |
| Nitration (PA) | % | 56 | --- | --- | --- |
| Sulfation (PA) | % | 55 | --- | --- | --- |
| Glycol | % | NEG | --- | --- | --- |
| Fuel | % | < 1.0 | --- | --- | --- |
| Silicon | ppm | █ 10 | --- | --- | --- |
| Sodium | ppm | █ < 1 | --- | --- | --- |
| Potassium | ppm | █ 3 | --- | --- | --- |

WEAR METALS

| | | | | | |
|------------|-----|-------|-----|-----|-----|
| Iron | ppm | █ 60 | --- | --- | --- |
| Copper | ppm | █ 11 | --- | --- | --- |
| Lead | ppm | █ 2 | --- | --- | --- |
| Tin | ppm | █ < 1 | --- | --- | --- |
| Aluminum | ppm | █ 3 | --- | --- | --- |
| Chromium | ppm | █ < 1 | --- | --- | --- |
| Molybdenum | ppm | █ 83 | --- | --- | --- |
| Nickel | ppm | █ 2 | --- | --- | --- |
| Titanium | ppm | █ < 1 | --- | --- | --- |
| Silver | ppm | █ 0 | --- | --- | --- |
| Manganese | ppm | < 1 | --- | --- | --- |
| Vanadium | ppm | 0 | --- | --- | --- |

ADDITIVES

| | | | | | |
|------------|-----|--------|-----|-----|-----|
| Calcium | ppm | █ 1556 | --- | --- | --- |
| Magnesium | ppm | █ 313 | --- | --- | --- |
| Zinc | ppm | █ 1177 | --- | --- | --- |
| Phosphorus | ppm | █ 1016 | --- | --- | --- |
| Barium | ppm | █ 0 | --- | --- | --- |
| Boron | ppm | █ 532 | --- | --- | --- |

TRUE NORTH MARINE

1206 MARINA BAY DR
CLEAR LAKE SHORES, TX
US 77565

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T:
F:

Diagnosis

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: VP975860

Unique No: 11075931

Signed: Don Baldrige

Report Date: 14 Jun 2024

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GRAPHS

