

OIL ANALYSIS REPORT

**VOLVO
PENTA**

NFLO1529 - CENTER DIESEL ENGINE

Sample No: VPA056406

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VPA056406 | --- | --- | --- |
| Sample Date | 07 Sep 2023 | --- | --- | --- |
| Machine Hours | 15486 | --- | --- | --- |
| Oil Hours | 264 | --- | --- | --- |
| Oil Changed | Not Changd | --- | --- | --- |
| Sample Status | NORMAL | --- | --- | --- |

ADVANCED DIESEL

1029 INDUSTRIAL BLVD, UNIT 2
NAPLES, FL
US 34104
Contact: KEITH SPICER
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T: (239)580-8731
F:

OIL CONDITION

| | | | | | |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C | cSt | █ 14.8 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | █ 7.8 | --- | --- | --- |
| Oxidation (PA) | % | 58 | --- | --- | --- |

CONTAMINATION

| | | | | | |
|----------------|-----|-------|-----|-----|-----|
| Soot % | % | █ 1.2 | --- | --- | --- |
| Nitration (PA) | % | 66 | --- | --- | --- |
| Sulfation (PA) | % | 56 | --- | --- | --- |
| Glycol | % | NEG | --- | --- | --- |
| Fuel | % | < 1.0 | --- | --- | --- |
| Silicon | ppm | █ 6 | --- | --- | --- |
| Sodium | ppm | █ 14 | --- | --- | --- |
| Potassium | ppm | █ 6 | --- | --- | --- |

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 acceptable for the time in service.

WEAR METALS

| | | | | | |
|------------|-----|-------|-----|-----|-----|
| Iron | ppm | █ 59 | --- | --- | --- |
| Copper | ppm | █ 22 | --- | --- | --- |
| Lead | ppm | █ < 1 | --- | --- | --- |
| Tin | ppm | █ < 1 | --- | --- | --- |
| Aluminum | ppm | █ 2 | --- | --- | --- |
| Chromium | ppm | █ 2 | --- | --- | --- |
| Molybdenum | ppm | █ 29 | --- | --- | --- |
| Nickel | ppm | █ < 1 | --- | --- | --- |
| Titanium | ppm | █ 0 | --- | --- | --- |
| Silver | ppm | █ 0 | --- | --- | --- |
| Manganese | ppm | █ 1 | --- | --- | --- |
| Vanadium | ppm | 0 | --- | --- | --- |

ADDITIVES

| | | | | | |
|------------|-----|--------|-----|-----|-----|
| Calcium | ppm | █ 1739 | --- | --- | --- |
| Magnesium | ppm | █ 507 | --- | --- | --- |
| Zinc | ppm | █ 1300 | --- | --- | --- |
| Phosphorus | ppm | █ 999 | --- | --- | --- |
| Barium | ppm | █ 0 | --- | --- | --- |
| Boron | ppm | █ 49 | --- | --- | --- |

Depot: VPADVNPAP
Unique No: 10642979
Signed: Doug Bogart
Report Date: 12 Sep 2023

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GRAPHS

