

OIL ANALYSIS REPORT

VOLVO PENTA

D190547736 - PORT GENSET

Sample No: VPA056148

Oil Type: DIESEL ENGINE OIL SAE 40

SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VPA056148 | --- | --- | --- |
| Sample Date | 13 Nov 2023 | --- | --- | --- |
| Machine Hours | 430 | --- | --- | --- |
| Oil Hours | 0 | --- | --- | --- |
| Oil Changed | N/A | --- | --- | --- |
| Sample Status | NORMAL | --- | --- | --- |

ADVANCED DIESEL

1029 INDUSTRIAL BLVD, UNIT 2
NAPLES, FL

US 34104

Contact: KEITH SPICER

keith_advanceddiesel@yahoo.com

T: (239)580-8731

F:

OIL CONDITION

| | | | | | |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C | cSt | █ 13.0 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | █ 10.0 | --- | --- | --- |
| Oxidation (PA) | % | 57 | --- | --- | --- |

CONTAMINATION

| | | | | | |
|----------------|-----|-------|-----|-----|-----|
| Soot % | % | █ 0.1 | --- | --- | --- |
| Nitration (PA) | % | 49 | --- | --- | --- |
| Sulfation (PA) | % | 51 | --- | --- | --- |
| Glycol | % | NEG | --- | --- | --- |
| Fuel | % | <1.0 | --- | --- | --- |
| Silicon | ppm | █ 5 | --- | --- | --- |
| Sodium | ppm | █ 0 | --- | --- | --- |
| Potassium | ppm | █ 1 | --- | --- | --- |

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 | █ 3 | --- | --- | --- |
| Copper | ppm | █ <1 | --- | --- | --- |
| Lead | ppm | █ 0 | --- | --- | --- |
| Tin | ppm | █ <1 | --- | --- | --- |
| Aluminum | ppm | █ 1 | --- | --- | --- |
| Chromium | ppm | █ <1 | --- | --- | --- |
| Molybdenum | ppm | █ 56 | --- | --- | --- |
| Nickel | ppm | █ 0 | --- | --- | --- |
| Titanium | ppm | █ 0 | --- | --- | --- |
| Silver | ppm | █ 0 | --- | --- | --- |
| Manganese | ppm | █ <1 | --- | --- | --- |
| Vanadium | ppm | 0 | --- | --- | --- |

ADDITIVES

| | | | | | |
|------------|-----|--------|-----|-----|-----|
| Calcium | ppm | █ 1105 | --- | --- | --- |
| Magnesium | ppm | █ 966 | --- | --- | --- |
| Zinc | ppm | █ 1376 | --- | --- | --- |
| Phosphorus | ppm | █ 1087 | --- | --- | --- |
| Barium | ppm | █ 0 | --- | --- | --- |
| Boron | ppm | █ 5 | --- | --- | --- |

Depot: VPADV NAP

Unique No: 10741284

Signed: Don Baldrige

Report Date: 16 Nov 2023

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GRAPHS

