

OIL ANALYSIS REPORT

VOLVO PENTA

VOLVO PENTA 9143714 - PORT DIESEL ENGINE

Sample No: VPA058669

Oil Type: {unknown}

SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VPA058669 | --- | --- | --- |
| Sample Date | 29 Feb 2024 | --- | --- | --- |
| Machine Hours | 504 | --- | --- | --- |
| Oil Hours | 0 | --- | --- | --- |
| Oil Changed | N/A | --- | --- | --- |
| Sample Status | NORMAL | --- | --- | --- |

JON DIESEL LLC
4915 241ST E
MYAKKA CITY, FL
US 34251
Contact: Jon Marquette
jondiesellc@gmail.com
T: (941)780-1330
F:

OIL CONDITION

| | | | | | |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C | cSt | █ 13.5 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | █ 8.7 | --- | --- | --- |
| Oxidation (PA) | % | 70 | --- | --- | --- |

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 acceptable for the time in service.

CONTAMINATION

| | | | | | |
|----------------|-----|-------|-----|-----|-----|
| Water | % | NEG | --- | --- | --- |
| Soot % | % | █ 0.3 | --- | --- | --- |
| Nitration (PA) | % | 68 | --- | --- | --- |
| Sulfation (PA) | % | 56 | --- | --- | --- |
| Glycol | % | NEG | --- | --- | --- |
| Fuel | % | <1.0 | --- | --- | --- |
| Silicon | ppm | █ 17 | --- | --- | --- |
| Sodium | ppm | █ 4 | --- | --- | --- |
| Potassium | ppm | █ 1 | --- | --- | --- |

WEAR METALS

| | | | | | |
|------------|-----|------|-----|-----|-----|
| Iron | ppm | █ 19 | --- | --- | --- |
| Copper | ppm | █ 13 | --- | --- | --- |
| Lead | ppm | █ <1 | --- | --- | --- |
| Tin | ppm | █ 2 | --- | --- | --- |
| Aluminum | ppm | █ 9 | --- | --- | --- |
| Chromium | ppm | █ <1 | --- | --- | --- |
| Molybdenum | ppm | █ 47 | --- | --- | --- |
| Nickel | ppm | █ <1 | --- | --- | --- |
| Titanium | ppm | █ 0 | --- | --- | --- |
| Silver | ppm | █ 0 | --- | --- | --- |
| Manganese | ppm | 0 | --- | --- | --- |
| Vanadium | ppm | 0 | --- | --- | --- |

ADDITIVES

| | | | | | |
|------------|-----|--------|-----|-----|-----|
| Calcium | ppm | █ 1135 | --- | --- | --- |
| Magnesium | ppm | █ 794 | --- | --- | --- |
| Zinc | ppm | █ 838 | --- | --- | --- |
| Phosphorus | ppm | 713 | --- | --- | --- |
| Barium | ppm | █ 11 | --- | --- | --- |
| Boron | ppm | █ 32 | --- | --- | --- |

Depot: VPJONMYA
Unique No: 10912581
Signed: Doug Bogart
Report Date: 06 Mar 2024

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GRAPHS

