

OIL ANALYSIS REPORT

VOLVO PENTA

A1115736 - STARBOARD DIESEL ENGINE

Sample No: VPA036220

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VPA036220 | --- | --- | --- |
| Sample Date | 10 Jan 2024 | --- | --- | --- |
| Machine Hours | 104 | --- | --- | --- |
| Oil Hours | 0 | --- | --- | --- |
| Oil Changed | N/A | --- | --- | --- |
| Sample Status | NORMAL | --- | --- | --- |

ADVANCED DIESEL

1029 INDUSTRIAL BLVD, UNIT 2
NAPLES, FL

US 34104

Contact: KEITH SPICER

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F:

OIL CONDITION

| | | | | | |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C | cSt | █ 13.6 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | █ 9.6 | --- | --- | --- |
| Oxidation (PA) | % | 64 | --- | --- | --- |

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.

CONTAMINATION

| | | | | | |
|----------------|-----|-------|-----|-----|-----|
| Water | % | NEG | --- | --- | --- |
| Soot % | % | █ 0.8 | --- | --- | --- |
| Nitration (PA) | % | 58 | --- | --- | --- |
| Sulfation (PA) | % | 58 | --- | --- | --- |
| Glycol | % | NEG | --- | --- | --- |
| Fuel | % | < 1.0 | --- | --- | --- |
| Silicon | ppm | █ 32 | --- | --- | --- |
| Sodium | ppm | █ 4 | --- | --- | --- |
| Potassium | ppm | █ 8 | --- | --- | --- |

WEAR METALS

| | | | | | |
|------------|-----|-------|-----|-----|-----|
| Iron | ppm | █ 184 | --- | --- | --- |
| Copper | ppm | █ 25 | --- | --- | --- |
| Lead | ppm | █ 3 | --- | --- | --- |
| Tin | ppm | █ 1 | --- | --- | --- |
| Aluminum | ppm | █ 14 | --- | --- | --- |
| Chromium | ppm | █ 14 | --- | --- | --- |
| Molybdenum | ppm | █ 58 | --- | --- | --- |
| Nickel | ppm | █ 3 | --- | --- | --- |
| Titanium | ppm | █ 0 | --- | --- | --- |
| Silver | ppm | █ 0 | --- | --- | --- |
| Manganese | ppm | █ 2 | --- | --- | --- |
| Vanadium | ppm | < 1 | --- | --- | --- |

ADDITIVES

| | | | | | |
|------------|-----|--------|-----|-----|-----|
| Calcium | ppm | █ 1170 | --- | --- | --- |
| Magnesium | ppm | █ 870 | --- | --- | --- |
| Zinc | ppm | █ 1278 | --- | --- | --- |
| Phosphorus | ppm | █ 1065 | --- | --- | --- |
| Barium | ppm | █ 0 | --- | --- | --- |
| Boron | ppm | █ 7 | --- | --- | --- |

Depot: VPADVNAP

Unique No: 10832036

Signed: Jonathan Hester

Report Date: 17 Jan 2024

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GRAPHS

