

OIL ANALYSIS REPORT

VOLVO PENTA

WINDSERVE ODYSSEY SCANIA 1161844 - PORT DIESEL ENGINE

Sample No: VPA050842

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VPA050842 | --- | --- | --- |
| Sample Date | 18 Apr 2024 | --- | --- | --- |
| Machine Hours | 3625 | --- | --- | --- |
| Oil Hours | 440 | --- | --- | --- |
| Oil Changed | Changed | --- | --- | --- |
| Sample Status | NORMAL | --- | --- | --- |

WINDSERVE MARINE

10 MACNAUGHT ST
NORTH KINGSTOWN, RI
US 02852

Contact: Ryan Linn

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OIL CONDITION

| | | | | | |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C | cSt | █ 13.7 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | █ 4.2 | --- | --- | --- |
| Oxidation (PA) | % | 73 | --- | --- | --- |

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.

CONTAMINATION

| | | | | | |
|----------------|-----|-------|-----|-----|-----|
| Water | % | NEG | --- | --- | --- |
| Soot % | % | █ 0.7 | --- | --- | --- |
| Nitration (PA) | % | 74 | --- | --- | --- |
| Sulfation (PA) | % | 66 | --- | --- | --- |
| Glycol | % | NEG | --- | --- | --- |
| Fuel | % | < 1.0 | --- | --- | --- |
| Silicon | ppm | █ 6 | --- | --- | --- |
| Sodium | ppm | █ 8 | --- | --- | --- |
| Potassium | ppm | █ 10 | --- | --- | --- |

WEAR METALS

| | | | | | |
|------------|-----|-------|-----|-----|-----|
| Iron | ppm | █ 27 | --- | --- | --- |
| Copper | ppm | █ 11 | --- | --- | --- |
| Lead | ppm | █ 2 | --- | --- | --- |
| Tin | ppm | █ 1 | --- | --- | --- |
| Aluminum | ppm | █ 6 | --- | --- | --- |
| Chromium | ppm | █ 3 | --- | --- | --- |
| Molybdenum | ppm | █ 2 | --- | --- | --- |
| Nickel | ppm | █ 1 | --- | --- | --- |
| Titanium | ppm | < 1 | --- | --- | --- |
| Silver | ppm | █ 0 | --- | --- | --- |
| Manganese | ppm | █ < 1 | --- | --- | --- |
| Vanadium | ppm | < 1 | --- | --- | --- |

ADDITIVES

| | | | | | |
|------------|-----|--------|-----|-----|-----|
| Calcium | ppm | █ 2902 | --- | --- | --- |
| Magnesium | ppm | █ 23 | --- | --- | --- |
| Zinc | ppm | █ 1574 | --- | --- | --- |
| Phosphorus | ppm | █ 1326 | --- | --- | --- |
| Barium | ppm | █ 1 | --- | --- | --- |
| Boron | ppm | █ 121 | --- | --- | --- |

Depot: VPSENNOR

Unique No: 11004500

Signed: Don Baldrige

Report Date: 01 May 2024

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GRAPHS

