

OIL ANALYSIS REPORT

VOLVO PENTA

CHRIS OLSON 44430 VOLVO PENTA A769965 - PORT DIESEL ENGINE

Sample No: VPA055140

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-------------|-----|-----|
| Sample Number | VPA055140 | VPA003117 | --- | --- |
| Sample Date | 19 Feb 2024 | 11 May 2021 | --- | --- |
| Machine Hours | 485 | 215 | --- | --- |
| Oil Hours | 0 | 0 | --- | --- |
| Oil Changed | Changed | Not Changd | --- | --- |
| Sample Status | NORMAL | NORMAL | --- | --- |

OIL CONDITION

| | | | | | |
|------------------|----------|--------|--------|-----|-----|
| Visc @ 100°C | cSt | █ 14.3 | █ 13.3 | --- | --- |
| Base Number (BN) | mg KOH/g | █ 8.0 | --- | --- | --- |
| Oxidation (PA) | % | 64 | 56 | --- | --- |

CONTAMINATION

| | | | | | |
|----------------|-----|-------|-------|-----|-----|
| Water | % | NEG | NEG | --- | --- |
| Soot % | % | █ 0.3 | █ 0.1 | --- | --- |
| Nitration (PA) | % | 58 | 46 | --- | --- |
| Sulfation (PA) | % | 55 | 53 | --- | --- |
| Glycol | % | NEG | NEG | --- | --- |
| Fuel | % | <1.0 | <1.0 | --- | --- |
| Silicon | ppm | █ 8 | █ 3 | --- | --- |
| Sodium | ppm | █ 4 | █ <1 | --- | --- |
| Potassium | ppm | █ 7 | █ 1 | --- | --- |

WEAR METALS

| | | | | | |
|------------|-----|------|------|-----|-----|
| Iron | ppm | █ 26 | █ 5 | --- | --- |
| Copper | ppm | █ 11 | █ 3 | --- | --- |
| Lead | ppm | █ 6 | █ 2 | --- | --- |
| Tin | ppm | █ <1 | █ <1 | --- | --- |
| Aluminum | ppm | █ 5 | █ <1 | --- | --- |
| Chromium | ppm | █ 1 | █ <1 | --- | --- |
| Molybdenum | ppm | █ 8 | █ 60 | --- | --- |
| Nickel | ppm | █ 3 | █ <1 | --- | --- |
| Titanium | ppm | █ <1 | █ <1 | --- | --- |
| Silver | ppm | █ 0 | █ <1 | --- | --- |
| Manganese | ppm | █ <1 | █ <1 | --- | --- |
| Vanadium | ppm | <1 | <1 | --- | --- |

ADDITIVES

| | | | | | |
|------------|-----|--------|--------|-----|-----|
| Calcium | ppm | █ 1865 | █ 1084 | --- | --- |
| Magnesium | ppm | █ 107 | █ 975 | --- | --- |
| Zinc | ppm | █ 1089 | █ 1254 | --- | --- |
| Phosphorus | ppm | █ 863 | █ 1093 | --- | --- |
| Barium | ppm | █ 34 | █ 0 | --- | --- |
| Boron | ppm | █ 150 | █ 5 | --- | --- |

COASTAL CAROLINA YACHT SALES

145 LOCKWOOD BLVD

CHARLESTON, SC

US 29403

Contact: STEVE VASAS

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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.

Depot: VP568144

Unique No: 10898152

Signed: Don Baldrige

Report Date: 27 Feb 2024

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GRAPHS

