

OIL ANALYSIS REPORT

VOLVO PENTA

MOYSEY VOLVO PENTA A209849 - PORT DIESEL ENGINE

Sample No: VPA058992

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

SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VPA058992 | --- | --- | --- |
| Sample Date | 13 Dec 2023 | --- | --- | --- |
| Machine Hours | 0 | --- | --- | --- |
| Oil Hours | 0 | --- | --- | --- |
| Oil Changed | Changed | --- | --- | --- |
| Sample Status | NORMAL | --- | --- | --- |

FULL KEEL MARINE SERVICES
314 LEGION AVE
ANNAPOLIS, MD
US 21401
Contact: Service Manager
FULLKEELMARINESERIVES@GMAIL.COM
T: (410)507-3542
F:

OIL CONDITION

| | | | | | |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C | cSt | █ 13.5 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | █ 10.1 | --- | --- | --- |
| Oxidation (PA) | % | 55 | --- | --- | --- |

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 % | % | █ 0.2 | --- | --- | --- |
| Nitration (PA) | % | 44 | --- | --- | --- |
| Sulfation (PA) | % | 52 | --- | --- | --- |
| Glycol | % | NEG | --- | --- | --- |
| Fuel | % | < 1.0 | --- | --- | --- |
| Silicon | ppm | █ 6 | --- | --- | --- |
| Sodium | ppm | █ 1 | --- | --- | --- |
| Potassium | ppm | █ 2 | --- | --- | --- |

WEAR METALS

| | | | | | |
|------------|-----|-------|-----|-----|-----|
| Iron | ppm | █ 12 | --- | --- | --- |
| Copper | ppm | █ 3 | --- | --- | --- |
| Lead | ppm | █ 2 | --- | --- | --- |
| Tin | ppm | █ < 1 | --- | --- | --- |
| Aluminum | ppm | █ 2 | --- | --- | --- |
| Chromium | ppm | █ < 1 | --- | --- | --- |
| Molybdenum | ppm | █ 59 | --- | --- | --- |
| Nickel | ppm | █ 1 | --- | --- | --- |
| Titanium | ppm | █ 0 | --- | --- | --- |
| Silver | ppm | █ < 1 | --- | --- | --- |
| Manganese | ppm | █ < 1 | --- | --- | --- |
| Vanadium | ppm | 0 | --- | --- | --- |

ADDITIVES

| | | | | | |
|------------|-----|--------|-----|-----|-----|
| Calcium | ppm | █ 1018 | --- | --- | --- |
| Magnesium | ppm | █ 960 | --- | --- | --- |
| Zinc | ppm | █ 1274 | --- | --- | --- |
| Phosphorus | ppm | █ 1076 | --- | --- | --- |
| Barium | ppm | █ < 1 | --- | --- | --- |
| Boron | ppm | █ 1 | --- | --- | --- |

Depot: VP1298996
Unique No: 10794157
Signed: Sean Felton
Report Date: 20 Dec 2023

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GRAPHS

