

OIL ANALYSIS REPORT

VOLVO PENTA

BRAD WATSON BRAD WATSON - PORT DIESEL ENGINE

Sample No: VPA052400

Oil Type: DIESEL ENGINE OIL SAE 40

SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VPA052400 | --- | --- | --- |
| Sample Date | 15 May 2024 | --- | --- | --- |
| Machine Hours | 0 | --- | --- | --- |
| Oil Hours | 0 | --- | --- | --- |
| Oil Changed | N/A | --- | --- | --- |
| Sample Status | NORMAL | --- | --- | --- |

MELBOURNE MARINE DIESEL

MELBOURNE, FL
US

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OIL CONDITION

| | | | | | |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C | cSt | █ 13.6 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | █ 7.4 | --- | --- | --- |
| Oxidation (PA) | % | 66 | --- | --- | --- |

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 % | % | █ 0.5 | --- | --- | --- |
| Nitration (PA) | % | 73 | --- | --- | --- |
| Sulfation (PA) | % | 57 | --- | --- | --- |
| Glycol | % | NEG | --- | --- | --- |
| Fuel | % | < 1.0 | --- | --- | --- |
| Silicon | ppm | █ 4 | --- | --- | --- |
| Sodium | ppm | █ 3 | --- | --- | --- |
| Potassium | ppm | █ 3 | --- | --- | --- |

WEAR METALS

| | | | | | |
|------------|-----|-------|-----|-----|-----|
| Iron | ppm | █ 13 | --- | --- | --- |
| Copper | ppm | █ 16 | --- | --- | --- |
| Lead | ppm | █ 0 | --- | --- | --- |
| Tin | ppm | █ 0 | --- | --- | --- |
| Aluminum | ppm | █ 2 | --- | --- | --- |
| Chromium | ppm | █ < 1 | --- | --- | --- |
| Molybdenum | ppm | █ 25 | --- | --- | --- |
| Nickel | ppm | █ 0 | --- | --- | --- |
| Titanium | ppm | █ 0 | --- | --- | --- |
| Silver | ppm | █ < 1 | --- | --- | --- |
| Manganese | ppm | █ 0 | --- | --- | --- |
| Vanadium | ppm | < 1 | --- | --- | --- |

ADDITIVES

| | | | | | |
|------------|-----|--------|-----|-----|-----|
| Calcium | ppm | █ 1548 | --- | --- | --- |
| Magnesium | ppm | █ 288 | --- | --- | --- |
| Zinc | ppm | █ 1058 | --- | --- | --- |
| Phosphorus | ppm | █ 885 | --- | --- | --- |
| Barium | ppm | █ 0 | --- | --- | --- |
| Boron | ppm | █ 49 | --- | --- | --- |

Depot: VP1222400

Unique No: 11032354

Signed: Jonathan Hester

Report Date: 20 May 2024

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GRAPHS

