

OIL ANALYSIS REPORT

VOLVO PENTA

VOLVO PENTA 1012452615 - PORT DIESEL ENGINE

Sample No: VPA060665

Oil Type: MOBIL DELVAC 1300 SUPER15W40

SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VPA060665 | --- | --- | --- |
| Sample Date | 15 Mar 2024 | --- | --- | --- |
| Machine Hours | 1140 | --- | --- | --- |
| Oil Hours | 40 | --- | --- | --- |
| Oil Changed | Not Changd | --- | --- | --- |
| Sample Status | NORMAL | --- | --- | --- |

CAROLINA MARINE DIESEL

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OIL CONDITION

| | | | | | |
|------------------|----------|---------|-----|-----|-----|
| Visc @ 100°C | cSt | █ 14.57 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | █ 8.9 | --- | --- | --- |
| Oxidation (PA) | % | 65 | --- | --- | --- |

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 % | % | █ 0.6 | --- | --- | --- |
| Nitration (PA) | % | 57 | --- | --- | --- |
| Sulfation (PA) | % | 56 | --- | --- | --- |
| Glycol | % | NEG | --- | --- | --- |
| Fuel | % | < 1.0 | --- | --- | --- |
| Silicon | ppm | █ 5 | --- | --- | --- |
| Sodium | ppm | █ 4 | --- | --- | --- |
| Potassium | ppm | █ 4 | --- | --- | --- |

WEAR METALS

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

ADDITIVES

| | | | | | |
|------------|-----|--------|-----|-----|-----|
| Calcium | ppm | █ 1891 | --- | --- | --- |
| Magnesium | ppm | █ 326 | --- | --- | --- |
| Zinc | ppm | █ 1257 | --- | --- | --- |
| Phosphorus | ppm | █ 1092 | --- | --- | --- |
| Barium | ppm | █ 0 | --- | --- | --- |
| Boron | ppm | █ 101 | --- | --- | --- |

Depot: CARHILSC

Unique No: 10930182

Signed: Jonathan Hester

Report Date: 21 Mar 2024

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GRAPHS

