

OIL ANALYSIS REPORT

VOLVO PENTA

VOLVO PENTA 1101059500 - STARBOARD DIESEL ENGINE

Sample No: VPA052126

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VPA052126 | --- | --- | --- |
| Sample Date | 28 Dec 2023 | --- | --- | --- |
| Machine Hours | 0 | --- | --- | --- |
| Oil Hours | 0 | --- | --- | --- |
| Oil Changed | Not Changd | --- | --- | --- |
| Sample Status | NORMAL | --- | --- | --- |

ALL SYSTEMS MARINE

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OIL CONDITION

| | | | | | |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C | cSt | █ 13.1 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | █ 9.2 | --- | --- | --- |
| Oxidation (PA) | % | 68 | --- | --- | --- |

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 % | % | █ 0.6 | --- | --- | --- |
| Nitration (PA) | % | 68 | --- | --- | --- |
| Sulfation (PA) | % | 58 | --- | --- | --- |
| Glycol | % | NEG | --- | --- | --- |
| Fuel | % | <1.0 | --- | --- | --- |
| Silicon | ppm | █ 4 | --- | --- | --- |
| Sodium | ppm | █ <1 | --- | --- | --- |
| Potassium | ppm | █ <1 | --- | --- | --- |

WEAR METALS

| | | | | | |
|------------|-----|------|-----|-----|-----|
| Iron | ppm | █ 11 | --- | --- | --- |
| Copper | ppm | █ 5 | --- | --- | --- |
| Lead | ppm | █ <1 | --- | --- | --- |
| Tin | ppm | █ <1 | --- | --- | --- |
| Aluminum | ppm | █ <1 | --- | --- | --- |
| Chromium | ppm | █ 1 | --- | --- | --- |
| Molybdenum | ppm | █ 58 | --- | --- | --- |
| Nickel | ppm | █ <1 | --- | --- | --- |
| Titanium | ppm | █ <1 | --- | --- | --- |
| Silver | ppm | █ 0 | --- | --- | --- |
| Manganese | ppm | █ <1 | --- | --- | --- |
| Vanadium | ppm | 0 | --- | --- | --- |

ADDITIVES

| | | | | | |
|------------|-----|--------|-----|-----|-----|
| Calcium | ppm | █ 1153 | --- | --- | --- |
| Magnesium | ppm | █ 927 | --- | --- | --- |
| Zinc | ppm | █ 1330 | --- | --- | --- |
| Phosphorus | ppm | █ 964 | --- | --- | --- |
| Barium | ppm | █ 0 | --- | --- | --- |
| Boron | ppm | █ 5 | --- | --- | --- |

Depot: VP99220003
Unique No: 10808876
Signed: Don Baldrige
Report Date: 02 Jan 2024

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GRAPHS

