

OIL ANALYSIS REPORT

**VOLVO
PENTA**

GRAY SREA YANMAR YANMAR 6CXM-ETE (S/N NOT GIVEN) - PORT DIESEL ENGINE

Sample No: VPA041635
Oil Type: SHELL 15W40

SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VPA041635 | --- | --- | --- |
| Sample Date | 11 Aug 2023 | --- | --- | --- |
| Machine Hours | 1483 | --- | --- | --- |
| Oil Hours | 5 | --- | --- | --- |
| Oil Changed | Changed | --- | --- | --- |
| Sample Status | NORMAL | --- | --- | --- |

OIL CONDITION

| | | | | | |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C | cSt | █ 13.3 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | █ 8.3 | --- | --- | --- |
| Oxidation (PA) | % | 64 | --- | --- | --- |

CONTAMINATION

| | | | | | |
|----------------|-----|------|-----|-----|-----|
| Soot % | % | █ 0 | --- | --- | --- |
| Nitration (PA) | % | 50 | --- | --- | --- |
| Sulfation (PA) | % | 53 | --- | --- | --- |
| Glycol | % | NEG | --- | --- | --- |
| Fuel | % | <1.0 | --- | --- | --- |
| Silicon | ppm | █ 4 | --- | --- | --- |
| Sodium | ppm | █ 0 | --- | --- | --- |
| Potassium | ppm | █ 6 | --- | --- | --- |

WEAR METALS

| | | | | | |
|------------|-----|------|-----|-----|-----|
| Iron | ppm | █ 16 | --- | --- | --- |
| Copper | ppm | █ <1 | --- | --- | --- |
| Lead | ppm | █ <1 | --- | --- | --- |
| Tin | ppm | █ 0 | --- | --- | --- |
| Aluminum | ppm | █ <1 | --- | --- | --- |
| Chromium | ppm | █ <1 | --- | --- | --- |
| Molybdenum | ppm | █ 15 | --- | --- | --- |
| Nickel | ppm | █ 0 | --- | --- | --- |
| Titanium | ppm | █ 0 | --- | --- | --- |
| Silver | ppm | █ 0 | --- | --- | --- |
| Manganese | ppm | █ <1 | --- | --- | --- |
| Vanadium | ppm | 0 | --- | --- | --- |

ADDITIVES

| | | | | | |
|------------|-----|--------|-----|-----|-----|
| Calcium | ppm | █ 2119 | --- | --- | --- |
| Magnesium | ppm | █ 19 | --- | --- | --- |
| Zinc | ppm | █ 1203 | --- | --- | --- |
| Phosphorus | ppm | █ 961 | --- | --- | --- |
| Barium | ppm | █ 0 | --- | --- | --- |
| Boron | ppm | █ 191 | --- | --- | --- |

BOATWORKS

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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 suitable for further service.

Depot: VPBOANOR
Unique No: 10604666
Signed: Jonathan Hester
Report Date: 16 Aug 2023

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GRAPHS

