

OIL ANALYSIS REPORT

VOLVO PENTA

TIPSSSEA CHRISSEA A1114567 - PORT DIESEL ENGINE

Sample No: VPA047897

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-------------|-------------|-----|
| Sample Number | VPA047897 | VPA025877 | VPA043374 | --- |
| Sample Date | 10 Oct 2023 | 30 Sep 2022 | 01 Feb 2022 | --- |
| Machine Hours | 178 | 460 | 72 | --- |
| Oil Hours | 57 | 71 | 72 | --- |
| Oil Changed | N/A | N/A | Not Changd | --- |
| Sample Status | NORMAL | NORMAL | NORMAL | --- |

OIL CONDITION

| | | | | | |
|------------------|----------|--------|--------|---------|-----|
| Visc @ 100°C | cSt | █ 14.1 | █ 14.0 | █ 13.37 | --- |
| Base Number (BN) | mg KOH/g | █ 8.1 | █ 10.2 | --- | --- |
| Oxidation (PA) | % | 61 | 69 | --- | --- |

CONTAMINATION

| | | | | | |
|----------------|-----|-------|-------|------|-----|
| Soot % | % | █ 0.1 | █ 0.2 | --- | --- |
| Nitration (PA) | % | 45 | 53 | --- | --- |
| Sulfation (PA) | % | 53 | 60 | --- | --- |
| Glycol | % | NEG | NEG | NEG | --- |
| Fuel | % | <1.0 | <1.0 | <1.0 | --- |
| Silicon | ppm | █ 4 | █ 8 | █ 24 | --- |
| Sodium | ppm | █ 2 | █ 3 | █ 0 | --- |
| Potassium | ppm | █ 7 | █ 7 | █ 2 | --- |

WEAR METALS

| | | | | | |
|------------|-----|------|------|------|-----|
| Iron | ppm | █ 6 | █ 26 | █ 15 | --- |
| Copper | ppm | █ 4 | █ 5 | █ 16 | --- |
| Lead | ppm | █ <1 | █ 2 | █ 6 | --- |
| Tin | ppm | █ 0 | █ <1 | █ 3 | --- |
| Aluminum | ppm | █ 4 | █ 10 | █ 31 | --- |
| Chromium | ppm | █ <1 | █ 1 | █ 2 | --- |
| Molybdenum | ppm | █ 0 | █ 8 | █ 58 | --- |
| Nickel | ppm | █ <1 | █ <1 | █ 2 | --- |
| Titanium | ppm | █ 0 | █ 0 | █ <1 | --- |
| Silver | ppm | █ 0 | █ 0 | █ 0 | --- |
| Manganese | ppm | █ <1 | █ <1 | █ 1 | --- |
| Vanadium | ppm | █ 0 | █ <1 | █ 0 | --- |

ADDITIVES

| | | | | | |
|------------|-----|--------|--------|--------|-----|
| Calcium | ppm | █ 2095 | █ 1984 | █ 1198 | --- |
| Magnesium | ppm | █ 34 | █ 110 | █ 945 | --- |
| Zinc | ppm | █ 1216 | █ 1111 | █ 1027 | --- |
| Phosphorus | ppm | █ 1002 | █ 947 | █ 1038 | --- |
| Barium | ppm | █ 0 | █ 2 | █ 0 | --- |
| Boron | ppm | █ 180 | █ 160 | █ 14 | --- |

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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 acceptable for the time in service.

Depot: VP592286

Unique No: 10722493

Signed: Sean Felton

Report Date: 01 Nov 2023

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GRAPHS

