

OIL ANALYSIS REPORT

**VOLVO
PENTA**

UNCOMPROMISED 3723 2004030080 - PORT DIESEL ENGINE

Sample No: VPA058441
Oil Type: SHELL 15W40

SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VPA058441 | --- | --- | --- |
| Sample Date | 30 Nov 2023 | --- | --- | --- |
| Machine Hours | 427 | --- | --- | --- |
| Oil Hours | 101 | --- | --- | --- |
| Oil Changed | Changed | --- | --- | --- |
| Sample Status | NORMAL | --- | --- | --- |

OIL CONDITION

| | | | | | |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C | cSt | █ 13.5 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | █ 9.6 | --- | --- | --- |
| Oxidation (PA) | % | 67 | --- | --- | --- |

CONTAMINATION

| | | | | | |
|----------------|-----|-------|-----|-----|-----|
| Water | % | NEG | --- | --- | --- |
| Soot % | % | █ 0.1 | --- | --- | --- |
| Nitration (PA) | % | 61 | --- | --- | --- |
| Sulfation (PA) | % | 57 | --- | --- | --- |
| Glycol | % | NEG | --- | --- | --- |
| Fuel | % | < 1.0 | --- | --- | --- |
| Silicon | ppm | █ 6 | --- | --- | --- |
| Sodium | ppm | █ 3 | --- | --- | --- |
| Potassium | ppm | █ 2 | --- | --- | --- |

WEAR METALS

| | | | | | |
|------------|-----|-------|-----|-----|-----|
| Iron | ppm | █ 9 | --- | --- | --- |
| Copper | ppm | █ 6 | --- | --- | --- |
| Lead | ppm | █ 2 | --- | --- | --- |
| Tin | ppm | █ < 1 | --- | --- | --- |
| Aluminum | ppm | █ 13 | --- | --- | --- |
| Chromium | ppm | █ 1 | --- | --- | --- |
| Molybdenum | ppm | █ 57 | --- | --- | --- |
| Nickel | ppm | █ 1 | --- | --- | --- |
| Titanium | ppm | █ 0 | --- | --- | --- |
| Silver | ppm | █ 0 | --- | --- | --- |
| Manganese | ppm | █ < 1 | --- | --- | --- |
| Vanadium | ppm | 0 | --- | --- | --- |

ADDITIVES

| | | | | | |
|------------|-----|--------|-----|-----|-----|
| Calcium | ppm | █ 1143 | --- | --- | --- |
| Magnesium | ppm | █ 872 | --- | --- | --- |
| Zinc | ppm | █ 1279 | --- | --- | --- |
| Phosphorus | ppm | █ 1113 | --- | --- | --- |
| Barium | ppm | █ 2 | --- | --- | --- |
| Boron | ppm | █ 18 | --- | --- | --- |

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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: 10794132
Signed: Sean Felton
Report Date: 20 Dec 2023

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GRAPHS

