

OIL ANALYSIS REPORT

VOLVO PENTA

353350 **MERCURY OL675732 - STERNDRIVE - PORT GASOLINE ENGINE**

Sample No: VPA048454

Oil Type: MERCURY 25W40

SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VPA048454 | --- | --- | --- |
| Sample Date | 11 Oct 2023 | --- | --- | --- |
| Machine Hours | 928 | --- | --- | --- |
| Oil Hours | 0 | --- | --- | --- |
| Oil Changed | N/A | --- | --- | --- |
| Sample Status | ABNORMAL | --- | --- | --- |

OIL CONDITION

| | | | | | |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C | cSt | ▲ 11.8 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | ■ 9.1 | --- | --- | --- |
| Oxidation (PA) | % | 15 | --- | --- | --- |

CONTAMINATION

| | | | | | |
|----------------|-----|-------|-----|-----|-----|
| Soot % | % | ■ 0 | --- | --- | --- |
| Nitration (PA) | % | 10 | --- | --- | --- |
| Sulfation (PA) | % | 12 | --- | --- | --- |
| Glycol | % | NEG | --- | --- | --- |
| Fuel | % | ▲ 5.1 | --- | --- | --- |
| Silicon | ppm | ■ 11 | --- | --- | --- |
| Sodium | ppm | ■ 2 | --- | --- | --- |
| Potassium | ppm | ■ 0 | --- | --- | --- |

WEAR METALS

| | | | | | |
|------------|-----|------|-----|-----|-----|
| Iron | ppm | ■ 14 | --- | --- | --- |
| Copper | ppm | ■ 3 | --- | --- | --- |
| Lead | ppm | ■ <1 | --- | --- | --- |
| Tin | ppm | ■ <1 | --- | --- | --- |
| Aluminum | ppm | ■ 3 | --- | --- | --- |
| Chromium | ppm | ■ <1 | --- | --- | --- |
| Molybdenum | ppm | 42 | --- | --- | --- |
| Nickel | ppm | ■ 0 | --- | --- | --- |
| Titanium | ppm | 0 | --- | --- | --- |
| Silver | ppm | ■ 0 | --- | --- | --- |
| Manganese | ppm | <1 | --- | --- | --- |
| Vanadium | ppm | 0 | --- | --- | --- |

ADDITIVES

| | | | | | |
|------------|-----|------|-----|-----|-----|
| Calcium | ppm | 1762 | --- | --- | --- |
| Magnesium | ppm | 25 | --- | --- | --- |
| Zinc | ppm | 678 | --- | --- | --- |
| Phosphorus | ppm | 586 | --- | --- | --- |
| Barium | ppm | 0 | --- | --- | --- |
| Boron | ppm | 162 | --- | --- | --- |

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Diagnosis

We advise that you check the fuel injection system. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

Depot: VP494046
Unique No: 10698223
Signed: Jonathan Hester
Report Date: 20 Oct 2023

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GRAPHS

