

OIL ANALYSIS REPORT

VOLVO PENTA

PILOTS ASSOC BAG & RIVER DE VOLVO PENTA 1016109387 - PORT DIESEL ENGINE

Sample No: VPA045385
Oil Type: MOBIL DELVAC 1300 SUPER15W40

SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VPA045385 | --- | --- | --- |
| Sample Date | 20 Oct 2023 | --- | --- | --- |
| Machine Hours | 5378 | --- | --- | --- |
| Oil Hours | 147 | --- | --- | --- |
| Oil Changed | Changed | --- | --- | --- |
| Sample Status | ATTENTION | --- | --- | --- |

OIL CONDITION

| | | | | | |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C | cSt | ▲ 12.0 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | ■ 7.6 | --- | --- | --- |
| Oxidation (PA) | % | 75 | --- | --- | --- |

CONTAMINATION

| | | | | | |
|----------------|-----|-------|-----|-----|-----|
| Soot % | % | ■ 0.1 | --- | --- | --- |
| Nitration (PA) | % | 53 | --- | --- | --- |
| Sulfation (PA) | % | 57 | --- | --- | --- |
| Glycol | % | NEG | --- | --- | --- |
| Fuel | % | ■ 0.5 | --- | --- | --- |
| Silicon | ppm | ■ 4 | --- | --- | --- |
| Sodium | ppm | ■ 2 | --- | --- | --- |
| Potassium | ppm | ■ 2 | --- | --- | --- |

WEAR METALS

| | | | | | |
|------------|-----|------|-----|-----|-----|
| Iron | ppm | ■ 2 | --- | --- | --- |
| Copper | ppm | ■ <1 | --- | --- | --- |
| Lead | ppm | ■ <1 | --- | --- | --- |
| Tin | ppm | ■ 0 | --- | --- | --- |
| Aluminum | ppm | ■ <1 | --- | --- | --- |
| Chromium | ppm | ■ 0 | --- | --- | --- |
| Molybdenum | ppm | ■ 49 | --- | --- | --- |
| Nickel | ppm | ■ 0 | --- | --- | --- |
| Titanium | ppm | ■ 0 | --- | --- | --- |
| Silver | ppm | ■ 0 | --- | --- | --- |
| Manganese | ppm | ■ <1 | --- | --- | --- |
| Vanadium | ppm | 0 | --- | --- | --- |

ADDITIVES

| | | | | | |
|------------|-----|--------|-----|-----|-----|
| Calcium | ppm | ■ 1559 | --- | --- | --- |
| Magnesium | ppm | ■ 518 | --- | --- | --- |
| Zinc | ppm | ■ 912 | --- | --- | --- |
| Phosphorus | ppm | ■ 764 | --- | --- | --- |
| Barium | ppm | ■ 0 | --- | --- | --- |
| Boron | ppm | ■ 50 | --- | --- | --- |

Eckels Diesel, LLC
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T:
F:

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. Confirm oil type. The condition of the oil is acceptable for the time in service.

Depot: VP557070
Unique No: 10709754
Signed: Doug Bogart
Report Date: 25 Oct 2023

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GRAPHS

