

OIL ANALYSIS REPORT

VOLVO PENTA

GALATI SURVEY VOLVO PENTA A877539 - PORT DIESEL ENGINE

Sample No: VPA044059

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VPA044059 | --- | --- | --- |
| Sample Date | 10 Jul 2023 | --- | --- | --- |
| Machine Hours | 478 | --- | --- | --- |
| Oil Hours | 0 | --- | --- | --- |
| Oil Changed | Not Changd | --- | --- | --- |
| Sample Status | NORMAL | --- | --- | --- |

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OIL CONDITION

| | | | | | |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C | cSt | █ 14.5 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | █ 9.3 | --- | --- | --- |
| Oxidation (PA) | % | 73 | --- | --- | --- |

CONTAMINATION

| | | | | | |
|----------------|-----|-------|-----|-----|-----|
| Soot % | % | █ 0.2 | --- | --- | --- |
| Nitration (PA) | % | 63 | --- | --- | --- |
| Sulfation (PA) | % | 60 | --- | --- | --- |
| Glycol | % | NEG | --- | --- | --- |
| Fuel | % | < 1.0 | --- | --- | --- |
| Silicon | ppm | █ 6 | --- | --- | --- |
| Sodium | ppm | █ < 1 | --- | --- | --- |
| Potassium | ppm | █ 7 | --- | --- | --- |

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.

WEAR METALS

| | | | | | |
|------------|-----|-------|-----|-----|-----|
| Iron | ppm | █ 33 | --- | --- | --- |
| Copper | ppm | █ 6 | --- | --- | --- |
| Lead | ppm | █ 2 | --- | --- | --- |
| Tin | ppm | █ < 1 | --- | --- | --- |
| Aluminum | ppm | █ 2 | --- | --- | --- |
| Chromium | ppm | █ < 1 | --- | --- | --- |
| Molybdenum | ppm | █ 8 | --- | --- | --- |
| Nickel | ppm | █ 1 | --- | --- | --- |
| Titanium | ppm | █ 0 | --- | --- | --- |
| Silver | ppm | █ 0 | --- | --- | --- |
| Manganese | ppm | █ < 1 | --- | --- | --- |
| Vanadium | ppm | 0 | --- | --- | --- |

ADDITIVES

| | | | | | |
|------------|-----|--------|-----|-----|-----|
| Calcium | ppm | █ 2283 | --- | --- | --- |
| Magnesium | ppm | █ 139 | --- | --- | --- |
| Zinc | ppm | █ 1362 | --- | --- | --- |
| Phosphorus | ppm | █ 1122 | --- | --- | --- |
| Barium | ppm | █ 0 | --- | --- | --- |
| Boron | ppm | █ 173 | --- | --- | --- |

Depot: VP945077
Unique No: 10560504
Signed: Jonathan Hester
Report Date: 18 Jul 2023

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GRAPHS

