

OIL ANALYSIS REPORT

VOLVO PENTA

LEE POLSTER NORTHERN LIGHTS 8432-59722 - GENSET

Sample No: VPA057295

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-------------|-----|-----|
| Sample Number | VPA057295 | VPA044507 | --- | --- |
| Sample Date | 26 Nov 2023 | 21 Oct 2022 | --- | --- |
| Machine Hours | 0 | 0 | --- | --- |
| Oil Hours | 0 | 0 | --- | --- |
| Oil Changed | N/A | Changed | --- | --- |
| Sample Status | NORMAL | ATTENTION | --- | --- |

OIL CONDITION

| | | | | | |
|------------------|----------|--------|--------|-----|-----|
| Visc @ 100°C | cSt | █ 13.0 | ▲ 9.47 | --- | --- |
| Base Number (BN) | mg KOH/g | █ 7.7 | 8.8 | --- | --- |
| Oxidation (PA) | % | 61 | 34 | --- | --- |

CONTAMINATION

| | | | | | |
|----------------|-----|-------|-------|-----|-----|
| Water | % | NEG | NEG | --- | --- |
| Soot % | % | █ 0.1 | █ 0.1 | --- | --- |
| Nitration (PA) | % | 48 | 47 | --- | --- |
| Sulfation (PA) | % | 53 | 42 | --- | --- |
| Glycol | % | NEG | NEG | --- | --- |
| Fuel | % | <1.0 | █ 1.1 | --- | --- |
| Silicon | ppm | █ 6 | █ 20 | --- | --- |
| Sodium | ppm | █ 2 | █ 2 | --- | --- |
| Potassium | ppm | █ 7 | █ 3 | --- | --- |

WEAR METALS

| | | | | | |
|------------|-----|------|------|-----|-----|
| Iron | ppm | █ 4 | █ 9 | --- | --- |
| Copper | ppm | █ 3 | █ 11 | --- | --- |
| Lead | ppm | █ 1 | █ 4 | --- | --- |
| Tin | ppm | █ 0 | █ <1 | --- | --- |
| Aluminum | ppm | █ 2 | █ 3 | --- | --- |
| Chromium | ppm | █ 0 | █ <1 | --- | --- |
| Molybdenum | ppm | 25 | 135 | --- | --- |
| Nickel | ppm | █ 0 | █ <1 | --- | --- |
| Titanium | ppm | 0 | 0 | --- | --- |
| Silver | ppm | █ 0 | 0 | --- | --- |
| Manganese | ppm | █ <1 | 2 | --- | --- |
| Vanadium | ppm | 0 | 0 | --- | --- |

ADDITIVES

| | | | | | |
|------------|-----|--------|------|-----|-----|
| Calcium | ppm | █ 2006 | 1892 | --- | --- |
| Magnesium | ppm | █ 36 | 122 | --- | --- |
| Zinc | ppm | █ 1162 | 905 | --- | --- |
| Phosphorus | ppm | █ 866 | 711 | --- | --- |
| Barium | ppm | █ 1 | 0 | --- | --- |
| Boron | ppm | █ 166 | 84 | --- | --- |

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T:

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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 suitable for further service.

Depot: VP1174336

Unique No: 10762483

Signed: Don Baldrige

Report Date: 29 Nov 2023

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GRAPHS

