

OIL ANALYSIS REPORT

VOLVO PENTA

SITN PRETTY 13100 VOLVO PENTA 2006008906 - STARBOARD DIESEL ENGINE

Sample No: VPA046371

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-------------|-----|-----|
| Sample Number | VPA046371 | VPA030126 | --- | --- |
| Sample Date | 28 Feb 2023 | 09 Feb 2022 | --- | --- |
| Machine Hours | 926 | 0 | --- | --- |
| Oil Hours | 0 | 0 | --- | --- |
| Oil Changed | Changed | Not Changd | --- | --- |
| Sample Status | NORMAL | NORMAL | --- | --- |

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OIL CONDITION

| | | | | | |
|------------------|----------|--------|--------|-----|-----|
| Visc @ 100°C | cSt | █ 13.6 | █ 13.7 | --- | --- |
| Base Number (BN) | mg KOH/g | █ 10.2 | █ 11.0 | --- | --- |
| Oxidation (PA) | % | 69 | 76 | --- | --- |

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.

CONTAMINATION

| | | | | | |
|----------------|-----|-------|-------|-----|-----|
| Water | % | NEG | NEG | --- | --- |
| Soot % | % | █ 0.1 | █ 0.1 | --- | --- |
| Nitration (PA) | % | 69 | 74 | --- | --- |
| Sulfation (PA) | % | 57 | 61 | --- | --- |
| Glycol | % | NEG | NEG | --- | --- |
| Fuel | % | <1.0 | <1.0 | --- | --- |
| Silicon | ppm | █ 5 | █ 5 | --- | --- |
| Sodium | ppm | █ 1 | █ 2 | --- | --- |
| Potassium | ppm | █ 2 | █ <1 | --- | --- |

WEAR METALS

| | | | | | |
|------------|-----|------|------|-----|-----|
| Iron | ppm | █ 3 | █ 5 | --- | --- |
| Copper | ppm | █ 3 | █ 3 | --- | --- |
| Lead | ppm | █ 2 | █ 3 | --- | --- |
| Tin | ppm | █ <1 | █ <1 | --- | --- |
| Aluminum | ppm | █ <1 | █ 1 | --- | --- |
| Chromium | ppm | █ <1 | █ <1 | --- | --- |
| Molybdenum | ppm | █ 53 | █ 57 | --- | --- |
| Nickel | ppm | █ 0 | █ <1 | --- | --- |
| Titanium | ppm | █ <1 | █ 0 | --- | --- |
| Silver | ppm | █ 1 | █ 0 | --- | --- |
| Manganese | ppm | █ 1 | █ <1 | --- | --- |
| Vanadium | ppm | <1 | 0 | --- | --- |

ADDITIVES

| | | | | | |
|------------|-----|--------|--------|-----|-----|
| Calcium | ppm | █ 1052 | █ 1106 | --- | --- |
| Magnesium | ppm | █ 932 | █ 979 | --- | --- |
| Zinc | ppm | █ 1237 | █ 1283 | --- | --- |
| Phosphorus | ppm | █ 959 | █ 1075 | --- | --- |
| Barium | ppm | █ 0 | █ 0 | --- | --- |
| Boron | ppm | █ <1 | █ 6 | --- | --- |

Depot: VP1080862
Unique No: 10370571
Signed: Sean Felton
Report Date: 09 Mar 2023

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GRAPHS

