

OIL ANALYSIS REPORT

VOLVO PENTA

ZIAD SKAFF 3671 VOLVO PENTA A395081 - STARBOARD GASOLINE ENGINE

Sample No: VPA055387

Oil Type: VOLVO PENTA SYNTHETIC 10W40

SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VPA055387 | --- | --- | --- |
| Sample Date | 31 Oct 2023 | --- | --- | --- |
| Machine Hours | 0 | --- | --- | --- |
| Oil Hours | 0 | --- | --- | --- |
| Oil Changed | Changed | --- | --- | --- |
| Sample Status | ATTENTION | --- | --- | --- |

WESTERN BRANCH DIESEL

6881 BULLDOG DR N

CHARLESTON, SC

US 29406

Contact: MICHAEL JORDAN

mdjordan@wbdiesel.com

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OIL CONDITION

| | | | | | |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C | cSt | █ 12.9 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | █ 6.8 | --- | --- | --- |
| Oxidation (PA) | % | █ 15 | --- | --- | --- |

CONTAMINATION

| | | | | | |
|----------------|-----|-------|-----|-----|-----|
| Soot % | % | █ 0.1 | --- | --- | --- |
| Nitration (PA) | % | █ 11 | --- | --- | --- |
| Sulfation (PA) | % | █ 13 | --- | --- | --- |
| Glycol | % | NEG | --- | --- | --- |
| Fuel | % | <1.0 | --- | --- | --- |
| Silicon | ppm | ▲ 33 | --- | --- | --- |
| Sodium | ppm | █ 10 | --- | --- | --- |
| Potassium | ppm | █ 2 | --- | --- | --- |

WEAR METALS

| | | | | | |
|------------|-----|------|-----|-----|-----|
| Iron | ppm | █ 38 | --- | --- | --- |
| Copper | ppm | █ 7 | --- | --- | --- |
| Lead | ppm | █ 4 | --- | --- | --- |
| Tin | ppm | █ 1 | --- | --- | --- |
| Aluminum | ppm | █ 4 | --- | --- | --- |
| Chromium | ppm | █ 2 | --- | --- | --- |
| Molybdenum | ppm | █ 17 | --- | --- | --- |
| Nickel | ppm | █ <1 | --- | --- | --- |
| Titanium | ppm | <1 | --- | --- | --- |
| Silver | ppm | █ 0 | --- | --- | --- |
| Manganese | ppm | █ 1 | --- | --- | --- |
| Vanadium | ppm | <1 | --- | --- | --- |

ADDITIVES

| | | | | | |
|------------|-----|--------|-----|-----|-----|
| Calcium | ppm | █ 1087 | --- | --- | --- |
| Magnesium | ppm | █ 585 | --- | --- | --- |
| Zinc | ppm | █ 818 | --- | --- | --- |
| Phosphorus | ppm | █ 614 | --- | --- | --- |
| Barium | ppm | █ 0 | --- | --- | --- |
| Boron | ppm | █ 1 | --- | --- | --- |

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of dirt/seal material. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

Depot: VP1165983

Unique No: 10726072

Signed: Don Baldrige

Report Date: 06 Nov 2023

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GRAPHS

