

OIL ANALYSIS REPORT

VOLVO PENTA

JAMES PECK 7984 VOLVO PENTA A1069911 - PORT DIESEL ENGINE

Sample No: VPA029640

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VPA029640 | --- | --- | --- |
| Sample Date | 25 May 2023 | --- | --- | --- |
| Machine Hours | 482 | --- | --- | --- |
| Oil Hours | 200 | --- | --- | --- |
| Oil Changed | Changed | --- | --- | --- |
| Sample Status | NORMAL | --- | --- | --- |

Johnson & Towers, Inc

2021 Briggs Road
MT.LAUREL, NJ
US 08054
Contact: Paul Prior
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T:
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OIL CONDITION

| | | | | | |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C | cSt | █ 13.5 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | █ 9.9 | --- | --- | --- |
| Oxidation (PA) | % | 59 | --- | --- | --- |

CONTAMINATION

| | | | | | |
|----------------|-----|-------|-----|-----|-----|
| Water | % | NEG | --- | --- | --- |
| Soot % | % | █ 0.5 | --- | --- | --- |
| Nitration (PA) | % | 55 | --- | --- | --- |
| Sulfation (PA) | % | 56 | --- | --- | --- |
| Glycol | % | NEG | --- | --- | --- |
| Fuel | % | < 1.0 | --- | --- | --- |
| Silicon | ppm | █ 5 | --- | --- | --- |
| Sodium | ppm | █ 1 | --- | --- | --- |
| Potassium | ppm | █ 0 | --- | --- | --- |

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 | █ 23 | --- | --- | --- |
| Copper | ppm | █ 8 | --- | --- | --- |
| Lead | ppm | █ 1 | --- | --- | --- |
| Tin | ppm | █ 0 | --- | --- | --- |
| Aluminum | ppm | █ 5 | --- | --- | --- |
| Chromium | ppm | █ 0 | --- | --- | --- |
| Molybdenum | ppm | █ 59 | --- | --- | --- |
| Nickel | ppm | █ <1 | --- | --- | --- |
| Titanium | ppm | █ 0 | --- | --- | --- |
| Silver | ppm | █ 0 | --- | --- | --- |
| Manganese | ppm | █ 0 | --- | --- | --- |
| Vanadium | ppm | 0 | --- | --- | --- |

ADDITIVES

| | | | | | |
|------------|-----|--------|-----|-----|-----|
| Calcium | ppm | █ 1163 | --- | --- | --- |
| Magnesium | ppm | █ 973 | --- | --- | --- |
| Zinc | ppm | █ 1262 | --- | --- | --- |
| Phosphorus | ppm | █ 1034 | --- | --- | --- |
| Barium | ppm | █ 0 | --- | --- | --- |
| Boron | ppm | █ 6 | --- | --- | --- |

Depot: VP855105
Unique No: 10495113
Signed: Don Baldrige
Report Date: 01 Jun 2023

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GRAPHS

