

OIL ANALYSIS REPORT

VOLVO PENTA

MARTIN SCHULZ 505587 VOLVO PENTA A1165397 - PORT DIESEL ENGINE

Sample No: VPA049825

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

SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-------------|-----|-----|
| Sample Number | VPA049825 | VPA041087 | --- | --- |
| Sample Date | 21 Sep 2023 | 08 Dec 2022 | --- | --- |
| Machine Hours | 239 | 188 | --- | --- |
| Oil Hours | 51 | 188 | --- | --- |
| Oil Changed | Changed | Changed | --- | --- |
| Sample Status | NORMAL | NORMAL | --- | --- |

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OIL CONDITION

| | | | | | |
|------------------|----------|--------|--------|-----|-----|
| Visc @ 100°C | cSt | █ 13.8 | █ 13.0 | --- | --- |
| Base Number (BN) | mg KOH/g | █ 8.3 | █ 11.0 | --- | --- |
| Oxidation (PA) | % | 56 | 58 | --- | --- |

CONTAMINATION

| | | | | | |
|----------------|-----|-------|-------|-----|-----|
| Soot % | % | █ 0.2 | █ 0.1 | --- | --- |
| Nitration (PA) | % | 54 | 48 | --- | --- |
| Sulfation (PA) | % | 50 | 55 | --- | --- |
| Glycol | % | NEG | NEG | --- | --- |
| Fuel | % | <1.0 | <1.0 | --- | --- |
| Silicon | ppm | █ 7 | █ 23 | --- | --- |
| Sodium | ppm | █ 2 | █ 2 | --- | --- |
| Potassium | ppm | █ 3 | █ 3 | --- | --- |

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 acceptable for the time in service.

WEAR METALS

| | | | | | |
|------------|-----|------|------|-----|-----|
| Iron | ppm | █ 8 | █ 33 | --- | --- |
| Copper | ppm | █ 4 | █ 19 | --- | --- |
| Lead | ppm | █ 1 | █ 6 | --- | --- |
| Tin | ppm | █ <1 | █ 4 | --- | --- |
| Aluminum | ppm | █ 5 | █ 11 | --- | --- |
| Chromium | ppm | █ <1 | █ 2 | --- | --- |
| Molybdenum | ppm | █ 68 | █ 41 | --- | --- |
| Nickel | ppm | █ <1 | █ <1 | --- | --- |
| Titanium | ppm | █ 0 | █ <1 | --- | --- |
| Silver | ppm | █ 0 | █ <1 | --- | --- |
| Manganese | ppm | █ <1 | █ 2 | --- | --- |
| Vanadium | ppm | 0 | <1 | --- | --- |

ADDITIVES

| | | | | | |
|------------|-----|--------|--------|-----|-----|
| Calcium | ppm | █ 1919 | █ 1701 | --- | --- |
| Magnesium | ppm | █ 189 | █ 447 | --- | --- |
| Zinc | ppm | █ 1200 | █ 1072 | --- | --- |
| Phosphorus | ppm | █ 1012 | █ 894 | --- | --- |
| Barium | ppm | █ 0 | █ <1 | --- | --- |
| Boron | ppm | 112 | █ 48 | --- | --- |

Depot: VP297371
Unique No: 10671644
Signed: Sean Felton
Report Date: 02 Oct 2023

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GRAPHS

