

OIL ANALYSIS REPORT

VOLVO PENTA

MICHAEL EDMUNDS DILLON VOLVO PENTA 3869440 - STARBOARD GASOLINE ENGINE

Sample No: VPA053191
Oil Type: VOLVO 10W40

SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VPA053191 | --- | --- | --- |
| Sample Date | 03 Apr 2024 | --- | --- | --- |
| Machine Hours | 784 | --- | --- | --- |
| Oil Hours | 0 | --- | --- | --- |
| Oil Changed | Changed | --- | --- | --- |
| Sample Status | NORMAL | --- | --- | --- |

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OIL CONDITION

| | | | | | |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 100°C | cSt | █ 14.2 | --- | --- | --- |
| Base Number (BN) | mg KOH/g | █ 6.5 | --- | --- | --- |
| Oxidation (PA) | % | 9 | --- | --- | --- |

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.

CONTAMINATION

| | | | | | |
|----------------|-----|-------|-----|-----|-----|
| Water | % | NEG | --- | --- | --- |
| Soot % | % | █ 0 | --- | --- | --- |
| Nitration (PA) | % | 7 | --- | --- | --- |
| Sulfation (PA) | % | 10 | --- | --- | --- |
| Glycol | % | NEG | --- | --- | --- |
| Fuel | % | < 1.0 | --- | --- | --- |
| Silicon | ppm | █ 6 | --- | --- | --- |
| Sodium | ppm | █ < 1 | --- | --- | --- |
| Potassium | ppm | █ 0 | --- | --- | --- |

WEAR METALS

| | | | | | |
|------------|-----|------|-----|-----|-----|
| Iron | ppm | █ 6 | --- | --- | --- |
| Copper | ppm | █ 25 | --- | --- | --- |
| Lead | ppm | █ 0 | --- | --- | --- |
| Tin | ppm | █ 0 | --- | --- | --- |
| Aluminum | ppm | █ 1 | --- | --- | --- |
| Chromium | ppm | █ 0 | --- | --- | --- |
| Molybdenum | ppm | 40 | --- | --- | --- |
| Nickel | ppm | █ 0 | --- | --- | --- |
| Titanium | ppm | 0 | --- | --- | --- |
| Silver | ppm | █ 0 | --- | --- | --- |
| Manganese | ppm | < 1 | --- | --- | --- |
| Vanadium | ppm | 0 | --- | --- | --- |

ADDITIVES

| | | | | | |
|------------|-----|------|-----|-----|-----|
| Calcium | ppm | 1816 | --- | --- | --- |
| Magnesium | ppm | 36 | --- | --- | --- |
| Zinc | ppm | 833 | --- | --- | --- |
| Phosphorus | ppm | 684 | --- | --- | --- |
| Barium | ppm | 0 | --- | --- | --- |
| Boron | ppm | < 1 | --- | --- | --- |

Depot: VP794951
Unique No: 10965796
Signed: Sean Felton
Report Date: 10 Apr 2024

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GRAPHS

