

OIL ANALYSIS REPORT

VOLVO PENTA

MARTIN SNYDER - SEATTLE YACHTS DILLON VOLVO PENTA 3940025545 - STARBOARD IPS

Sample No: VPA059023

Oil Type: VOLVO PENTA GL-5 SAE 75W90

SAMPLE INFORMATION

| | | | | |
|---------------|-------------|-----|-----|-----|
| Sample Number | VPA059023 | --- | --- | --- |
| Sample Date | 10 Oct 2023 | --- | --- | --- |
| Machine Hours | 180 | --- | --- | --- |
| Oil Hours | 104 | --- | --- | --- |
| Oil Changed | Changed | --- | --- | --- |
| Sample Status | NORMAL | --- | --- | --- |

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OIL CONDITION

| | | | | | |
|-------------|-----|-------|-----|-----|-----|
| Visc @ 40°C | cSt | █ 107 | --- | --- | --- |
|-------------|-----|-------|-----|-----|-----|

CONTAMINATION

| | | | | | |
|-----------|-----|-----|-----|-----|-----|
| Silicon | ppm | 8 | --- | --- | --- |
| Sodium | ppm | █ 2 | --- | --- | --- |
| Potassium | ppm | █ 2 | --- | --- | --- |

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 condition of the oil is acceptable for the time in service.

WEAR METALS

| | | | | | |
|------------|-----|------|-----|-----|-----|
| PQ | | █ 13 | --- | --- | --- |
| Iron | ppm | █ 15 | --- | --- | --- |
| Copper | ppm | 4 | --- | --- | --- |
| Lead | ppm | <1 | --- | --- | --- |
| Tin | ppm | <1 | --- | --- | --- |
| Aluminum | ppm | 0 | --- | --- | --- |
| Chromium | ppm | █ <1 | --- | --- | --- |
| Molybdenum | ppm | █ <1 | --- | --- | --- |
| Nickel | ppm | █ <1 | --- | --- | --- |
| Titanium | ppm | 0 | --- | --- | --- |
| Silver | ppm | 0 | --- | --- | --- |
| Manganese | ppm | █ 2 | --- | --- | --- |
| Vanadium | ppm | 0 | --- | --- | --- |

ADDITIVES

| | | | | | |
|------------|-----|--------|-----|-----|-----|
| Calcium | ppm | █ 5 | --- | --- | --- |
| Magnesium | ppm | █ 48 | --- | --- | --- |
| Zinc | ppm | █ 7 | --- | --- | --- |
| Phosphorus | ppm | █ 1349 | --- | --- | --- |
| Barium | ppm | █ 2 | --- | --- | --- |
| Boron | ppm | █ 400 | --- | --- | --- |

Depot: VP794951
Unique No: 10696437
Signed: Sean Felton
Report Date: 17 Oct 2023

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GRAPHS

