

# OIL ANALYSIS REPORT



## MOSHE BEGIMK ONAN L130605144 - GENSET

**Sample No:** VPA051160  
**Oil Type:** VOLVO PENTA SAE 15W40

### SAMPLE INFORMATION

|               |             |             |     |     |
|---------------|-------------|-------------|-----|-----|
| Sample Number | VPA051160   | VPA031855   | --- | --- |
| Sample Date   | 08 Jan 2024 | 11 Aug 2020 | --- | --- |
| Machine Hours | 344         | 0           | --- | --- |
| Oil Hours     | 0           | 0           | --- | --- |
| Oil Changed   | Not Changd  | Not Changd  | --- | --- |
| Sample Status | MARGINAL    | NORMAL      | --- | --- |

**ADMIRALTY MARINE**  
 2775 KURTZ ST, STE 12  
 SAN DIEGO, CA  
 US 92110  
 Contact: Terry Albee  
 TALBEE@ADMIRALTYMARINE.NET  
 T:  
 F:

### OIL CONDITION

|                  |          |        |        |     |     |
|------------------|----------|--------|--------|-----|-----|
| Visc @ 100°C     | cSt      | ▲ 12.3 | ■ 12.5 | --- | --- |
| Base Number (BN) | mg KOH/g | ■ 8.6  | ---    | --- | --- |
| Oxidation (PA)   | %        | 63     | 65     | --- | --- |

### CONTAMINATION

|                |     |       |       |     |     |
|----------------|-----|-------|-------|-----|-----|
| Water          | %   | NEG   | NEG   | --- | --- |
| Soot %         | %   | ■ 0.1 | ■ 0.1 | --- | --- |
| Nitration (PA) | %   | 49    | 64    | --- | --- |
| Sulfation (PA) | %   | 52    | 54    | --- | --- |
| Glycol         | %   | NEG   | NEG   | --- | --- |
| Fuel           | %   | ■ 1.4 | <1.0  | --- | --- |
| Silicon        | ppm | ■ 7   | ■ 18  | --- | --- |
| Sodium         | ppm | ■ <1  | ■ 4   | --- | --- |
| Potassium      | ppm | ■ 2   | ■ 1   | --- | --- |

### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.

### WEAR METALS

|            |     |      |      |     |     |
|------------|-----|------|------|-----|-----|
| Iron       | ppm | ■ 5  | ■ 10 | --- | --- |
| Copper     | ppm | ■ 1  | ■ 2  | --- | --- |
| Lead       | ppm | ■ 0  | ■ <1 | --- | --- |
| Tin        | ppm | ■ <1 | ■ <1 | --- | --- |
| Aluminum   | ppm | ■ 3  | ■ 4  | --- | --- |
| Chromium   | ppm | ■ <1 | ■ <1 | --- | --- |
| Molybdenum | ppm | ■ 52 | ■ 66 | --- | --- |
| Nickel     | ppm | ■ 0  | ■ <1 | --- | --- |
| Titanium   | ppm | <1   | ■ <1 | --- | --- |
| Silver     | ppm | ■ 0  | 0    | --- | --- |
| Manganese  | ppm | ■ 0  | ■ <1 | --- | --- |
| Vanadium   | ppm | 0    | 0    | --- | --- |

### ADDITIVES

|            |     |        |        |     |     |
|------------|-----|--------|--------|-----|-----|
| Calcium    | ppm | 917    | ■ 1244 | --- | --- |
| Magnesium  | ppm | ■ 821  | ■ 947  | --- | --- |
| Zinc       | ppm | ■ 1056 | ■ 1096 | --- | --- |
| Phosphorus | ppm | ■ 1034 | ■ 1017 | --- | --- |
| Barium     | ppm | ■ 0    | ■ 0    | --- | --- |
| Boron      | ppm | ■ 8    | ■ 67   | --- | --- |

**Depot:** VP151529  
**Unique No:** 10821653  
**Signed:** Jonathan Hester  
**Report Date:** 11 Jan 2024

# OIL ANALYSIS REPORT

# VOLVO PENTA

## GRAPHS

