

OIL ANALYSIS REPORT

**VOLVO
PENTA**

ONAN F180356985 - GENSET

Sample No: VPA059484

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA059484	VPA027573	VPA026115	---
Sample Date	14 Nov 2023	16 May 2022	13 Sep 2021	---
Machine Hours	1980	1258	1087	---
Oil Hours	0	0	0	---
Oil Changed	N/A	N/A	Not Changd	---
Sample Status	NORMAL	NORMAL	NORMAL	---

SUNCOAST DIESEL MARINE

6341 PORTER ROAD, SUITE 6
SARASOTA, FL
US 34240
Contact: SERVICE MANAGER
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T: (941)342-0033
F:

OIL CONDITION

Visc @ 100°C	cSt	12.7	13.0	12.5	---
Base Number (BN)	mg KOH/g	8.3	10.7	---	---
Oxidation (PA)	%	61	73	65	---

CONTAMINATION

Soot %	%	0.1	0.1	0.2	---
Nitration (PA)	%	49	63	58	---
Sulfation (PA)	%	57	58	60	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	7	8	8	---
Sodium	ppm	2	3	3	---
Potassium	ppm	0	1	<1	---

WEAR METALS

Iron	ppm	3	5	6	---
Copper	ppm	<1	<1	<1	---
Lead	ppm	0	0	0	---
Tin	ppm	0	<1	<1	---
Aluminum	ppm	2	2	2	---
Chromium	ppm	0	<1	<1	---
Molybdenum	ppm	88	45	115	---
Nickel	ppm	0	<1	0	---
Titanium	ppm	<1	<1	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	<1	<1	0	---

ADDITIVES

Calcium	ppm	1389	1532	1514	---
Magnesium	ppm	518	680	647	---
Zinc	ppm	995	1039	836	---
Phosphorus	ppm	826	842	730	---
Barium	ppm	0	0	<1	---
Boron	ppm	284	63	316	---

Diagnosis

No corrective action is recommended at this time. 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.

Depot: VP705283
Unique No: 10742557
Signed: Doug Bogart
Report Date: 15 Nov 2023

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GRAPHS

