

OIL ANALYSIS REPORT

VOLVO PENTA

CARTER PB50-39 VOLVO PENTA A900913 - PORT DIESEL ENGINE

Sample No: VPA047236
Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA047236	VPA022889	---	---
Sample Date	03 Sep 2023	22 Sep 2022	---	---
Machine Hours	706	525	---	---
Oil Hours	175	160	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

GRAND BANKS

450 SW SALEM RD
STUART, FL
US 34994
Contact: ROBERT ANTONA
roberta@gbmarinegroup.com
T: (609)384-5290
F:

OIL CONDITION

Visc @ 100°C	cSt	█ 13.5	█ 13.4	---	---
Base Number (BN)	mg KOH/g	█ 9.5	█ 11.2	---	---
Oxidation (PA)	%	57	61	---	---

CONTAMINATION

Soot %	%	█ 0.7	█ 0.3	---	---
Nitration (PA)	%	58	53	---	---
Sulfation (PA)	%	55	58	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 6	█ 4	---	---
Sodium	ppm	█ 4	█ 1	---	---
Potassium	ppm	█ 2	█ 1	---	---

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	█ 27	█ 8	---	---
Copper	ppm	█ 8	█ 4	---	---
Lead	ppm	█ 2	█ <1	---	---
Tin	ppm	█ <1	█ <1	---	---
Aluminum	ppm	█ 2	█ 1	---	---
Chromium	ppm	█ <1	█ <1	---	---
Molybdenum	ppm	█ 63	█ 59	---	---
Nickel	ppm	█ 2	█ <1	---	---
Titanium	ppm	█ <1	█ 0	---	---
Silver	ppm	█ 0	█ 2	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	<1	0	---	---

ADDITIVES

Calcium	ppm	█ 1181	█ 1088	---	---
Magnesium	ppm	1031	█ 956	---	---
Zinc	ppm	█ 1359	█ 1280	---	---
Phosphorus	ppm	█ 1061	█ 1055	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 6	█ 7	---	---

Depot: VP531377
Unique No: 10642223
Signed: Don Baldrige
Report Date: 12 Sep 2023

OIL ANALYSIS REPORT

VOLVO PENTA

GRAPHS

