

OIL ANALYSIS REPORT



PHIL MARCARIO - PRESTIGE VOLVO PENTA A1065427 - PORT DIESEL ENGINE

Sample No: VPA036404

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA036404	VPA043999	VPA043638	---
Sample Date	06 Dec 2023	12 Dec 2022	09 Nov 2021	---
Machine Hours	117	99	73	---
Oil Hours	117	99	73	---
Oil Changed	Not Chngd	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

Larry's Lighthouse Marina
 1250
 AQUEBOGUE, NY
 US 11931
 Contact: MAX FUHLBRUGGE
 info@lighthousemarina.com
 T: x
 F: x

OIL CONDITION

Visc @ 100°C	cSt	█ 14.5	█ 14.6	█ 14.6	---
Base Number (BN)	mg KOH/g	█ 9.0	█ 9.4	---	---
Oxidation (PA)	%	63	59	65	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	█ 0.2	█ 0.2	█ 0.3	---
Nitration (PA)	%	45	75	51	---
Sulfation (PA)	%	56	56	58	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	█ 5	█ 5	█ 8	---
Sodium	ppm	█ <1	█ 0	█ 2	---
Potassium	ppm	█ 6	█ 8	█ 6	---

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	█ 6	█ 9	█ 14	---
Copper	ppm	█ 2	█ 3	█ 5	---
Lead	ppm	█ 0	█ 1	█ 2	---
Tin	ppm	█ <1	█ <1	█ <1	---
Aluminum	ppm	█ 1	█ 3	█ 2	---
Chromium	ppm	█ 0	█ <1	█ <1	---
Molybdenum	ppm	█ 0	█ 1	█ 6	---
Nickel	ppm	█ 0	█ 0	█ <1	---
Titanium	ppm	█ 0	█ 0	█ <1	---
Silver	ppm	█ 0	█ <1	█ <1	---
Manganese	ppm	█ <1	█ <1	█ <1	---
Vanadium	ppm	0	<1	0	---

ADDITIVES

Calcium	ppm	█ 2090	█ 2186	█ 2366	---
Magnesium	ppm	█ 15	█ 16	█ 31	---
Zinc	ppm	█ 1171	█ 1114	█ 1082	---
Phosphorus	ppm	█ 938	█ 957	█ 1003	---
Barium	ppm	█ 0	█ 0	█ 0	---
Boron	ppm	█ 195	█ 195	█ 204	---

Depot: VP610438
Unique No: 10792796
Signed: Don Baldrige
Report Date: 20 Dec 2023

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GRAPHS

