

OIL ANALYSIS REPORT



ROBERT KADE VOLVO PENTA 4012058650 - PORT GASOLINE ENGINE

Sample No: VPA055517
Oil Type: NOT GIVEN

SAMPLE INFORMATION

Sample Number	VPA055517	VPA055525	---	---
Sample Date	25 Oct 2023	25 Sep 2023	---	---
Machine Hours	559	555	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	N/A	---	---
Sample Status	ATTENTION	ABNORMAL	---	---

MELBOURNE MARINE DIESEL

MELBOURNE, FL
 US
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 info@melbournemarinediesel.com
 T: (321)425-2517
 F:

OIL CONDITION

Visc @ 100°C	cSt	█ 13.3	█ 12.8	---	---
Base Number (BN)	mg KOH/g	█ 8.3	█ 5.6	---	---
Oxidation (PA)	%	█ 18	█ 15	---	---

CONTAMINATION

Soot %	%	█ 0	█ 0.1	---	---
Nitration (PA)	%	█ 6	█ 10	---	---
Sulfation (PA)	%	█ 13	█ 12	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 8	█ 12	---	---
Sodium	ppm	▲ 183	▲ 736	---	---
Potassium	ppm	█ 16	▲ 37	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Sodium and/or potassium levels are high. Test for glycol is negative. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

WEAR METALS

Iron	ppm	█ 54	▲ 242	---	---
Copper	ppm	█ 28	▲ 201	---	---
Lead	ppm	█ 1	█ 2	---	---
Tin	ppm	█ <1	█ <1	---	---
Aluminum	ppm	█ 5	█ 13	---	---
Chromium	ppm	█ <1	█ 2	---	---
Molybdenum	ppm	█ 11	█ 44	---	---
Nickel	ppm	█ <1	█ 3	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	<1	3	---	---
Vanadium	ppm	<1	0	---	---

ADDITIVES

Calcium	ppm	1924	1768	---	---
Magnesium	ppm	159	125	---	---
Zinc	ppm	1176	796	---	---
Phosphorus	ppm	1124	649	---	---
Barium	ppm	0	0	---	---
Boron	ppm	241	27	---	---

Depot: VP1222400
Unique No: 10713534
Signed: Jonathan Hester
Report Date: 31 Oct 2023

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GRAPHS

