

OIL ANALYSIS REPORT

VOLVO PENTA

MARINE MAX TAP497606 VOLVO PENTA 20132209453 - STARBOARD DIESEL ENGINE

Sample No: VPA039638

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA039638	---	---	---
Sample Date	27 Jun 2023	---	---	---
Machine Hours	159	---	---	---
Oil Hours	159	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	MARGINAL	---	---	---

FDDA TAMPA

TAMPA, FL
US
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OIL CONDITION

Visc @ 100°C	cSt	█ 12.9	---	---	---
Base Number (BN)	mg KOH/g	█ 8.0	---	---	---
Oxidation (PA)	%	█ 36	---	---	---

CONTAMINATION

Soot %	%	█ 0.5	---	---	---
Nitration (PA)	%	█ 47	---	---	---
Sulfation (PA)	%	█ 44	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 37	---	---	---
Sodium	ppm	█ 0	---	---	---
Potassium	ppm	█ 47	---	---	---

WEAR METALS

Iron	ppm	█ 26	---	---	---
Copper	ppm	█ 17	---	---	---
Lead	ppm	█ < 1	---	---	---
Tin	ppm	█ 3	---	---	---
Aluminum	ppm	▲ 29	---	---	---
Chromium	ppm	█ < 1	---	---	---
Molybdenum	ppm	< 1	---	---	---
Nickel	ppm	█ < 1	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 3	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 1244	---	---	---
Magnesium	ppm	█ 886	---	---	---
Zinc	ppm	█ 1222	---	---	---
Phosphorus	ppm	█ 1049	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 0	---	---	---

Diagnosis

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. The aluminum level is abnormal. All other metal levels are typical for a new component breaking in. Elemental level of silicon (Si) above normal indicating ingress of seal material. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot: VP208641
Unique No: 10545723
Signed: Doug Bogart
Report Date: 06 Jul 2023

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GRAPHS

