

OIL ANALYSIS REPORT

VOLVO PENTA

TROY SCHELL 502718AR MERCURISER 2A701806 - STARBOARD DIESEL ENGINE

Sample No: VPA055314

Oil Type: MERCURY 4 STROKE 5W40

SAMPLE INFORMATION

Sample Number	VPA055314	---	---	---
Sample Date	18 Mar 2024	---	---	---
Machine Hours	184	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

Endor Marine LLC - Coastal Marine - 152124
4300 11th Ave. NW
SEATTLE, WA
US 98107
Contact: WILLOW YANARELLA
service@coastalmarineengine.com
T: (206)784-3703
F: (206)784-8823

OIL CONDITION

Visc @ 100°C	cSt	█ 15.1	---	---	---
Base Number (BN)	mg KOH/g	█ 7.9	---	---	---
Oxidation (PA)	%	55	---	---	---

Diagnosis

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Resample at the next service interval to monitor. All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0	---	---	---
Nitration (PA)	%	73	---	---	---
Sulfation (PA)	%	52	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	▲ 62	---	---	---
Sodium	ppm	█ 9	---	---	---
Potassium	ppm	█ 11	---	---	---

WEAR METALS

Iron	ppm	█ 18	---	---	---
Copper	ppm	█ 20	---	---	---
Lead	ppm	█ 3	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	● 21	---	---	---
Chromium	ppm	█ 1	---	---	---
Molybdenum	ppm	█ 50	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	2	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 2261	---	---	---
Magnesium	ppm	█ 13	---	---	---
Zinc	ppm	█ 796	---	---	---
Phosphorus	ppm	█ 634	---	---	---
Barium	ppm	█ <1	---	---	---
Boron	ppm	█ 144	---	---	---

Depot: VP794951
Unique No: 10941498
Signed: Jonathan Hester
Report Date: 27 Mar 2024

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GRAPHS

