

OIL ANALYSIS REPORT

VOLVO PENTA

FRED LOPATIN LOPATIN VOLVO PENTA 7008453402 - PORT DIESEL ENGINE

Sample No: VPA042924

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

SAMPLE INFORMATION

Sample Number	VPA042924	---	---	---
Sample Date	21 Mar 2023	---	---	---
Machine Hours	505	---	---	---
Oil Hours	287	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ATTENTION	---	---	---

Jefferson Beach Yacht Sales Inc

24400 Jefferson Ave.
SAINT CLAIR SHORES, MI
US 48080

Contact: DENNIS BUTT
dbutt@jbys.com

T: (866)490-5297

F:

OIL CONDITION

Visc @ 100°C	cSt	█ 14.8	---	---	---
Base Number (BN)	mg KOH/g	█ 9.2	---	---	---
Oxidation (PA)	%	█ 64	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. 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 acceptable for the time in service.

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 1.9	---	---	---
Nitration (PA)	%	█ 77	---	---	---
Sulfation (PA)	%	█ 65	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	● 26	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 1	---	---	---

WEAR METALS

Iron	ppm	█ 42	---	---	---
Copper	ppm	● 108	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ < 1	---	---	---
Aluminum	ppm	█ 3	---	---	---
Chromium	ppm	█ 4	---	---	---
Molybdenum	ppm	█ 49	---	---	---
Nickel	ppm	█ 3	---	---	---
Titanium	ppm	█ < 1	---	---	---
Silver	ppm	█ 2	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	< 1	---	---	---

ADDITIVES

Calcium	ppm	█ 1418	---	---	---
Magnesium	ppm	█ 732	---	---	---
Zinc	ppm	█ 1254	---	---	---
Phosphorus	ppm	█ 995	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 0	---	---	---

Depot: VP297371

Unique No: 10420118

Signed: Don Baldrige

Report Date: 14 Apr 2023

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GRAPHS

