

OIL ANALYSIS REPORT



RICHARD LEWIS 505843 VOLVO PENTA 701183389 - PORT DIESEL ENGINE

Sample No: VPA056195

Oil Type: VOLVO VDS-4.5 Premium Motor Oil 15W40

SAMPLE INFORMATION

Sample Number	VPA056195	VPA031697	VPA023517	---
Sample Date	27 Mar 2024	30 Sep 2020	05 Mar 2020	---
Machine Hours	1326	1250	1134	---
Oil Hours	0	100	67	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ABNORMAL	ABNORMAL	NORMAL	---

Jefferson Beach Yacht Sales Inc
 24400 Jefferson Ave.
 SAINT CLAIR SHORES, MI
 US 48080
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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.2	▲ 12.4	■ 12.8	---
Base Number (BN)	mg KOH/g	■ 9.8	---	---	---
Oxidation (PA)	%	57	59	56	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	■ 0.3	■ 0.5	■ 0.2	---
Nitration (PA)	%	49	54	44	---
Sulfation (PA)	%	52	57	52	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	▲ 3.4	▲ 5.1	<1.0	---
Silicon	ppm	■ 2	■ 2	■ 2	---
Sodium	ppm	■ 0	■ 2	■ 2	---
Potassium	ppm	■ 2	■ <1	■ <1	---

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Light fuel dilution occurring. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

WEAR METALS

Iron	ppm	■ 3	■ 6	■ 2	---
Copper	ppm	■ 2	■ 8	■ 3	---
Lead	ppm	■ 0	■ <1	■ <1	---
Tin	ppm	■ 0	■ 1	■ 0	---
Aluminum	ppm	■ <1	■ 0	■ 1	---
Chromium	ppm	■ 0	■ <1	■ <1	---
Molybdenum	ppm	■ 54	■ 63	■ 56	---
Nickel	ppm	■ 0	■ <1	■ <1	---
Titanium	ppm	■ 0	■ 0	■ 0	---
Silver	ppm	■ 0	■ 0	■ 0	---
Manganese	ppm	■ 0	■ <1	■ <1	---
Vanadium	ppm	0	0	0	---

Diagnosis

ADDITIVES

Calcium	ppm	■ 1265	■ 1047	■ 995	---
Magnesium	ppm	1021	■ 904	■ 865	---
Zinc	ppm	■ 1297	■ 1169	■ 1065	---
Phosphorus	ppm	■ 1094	■ 1017	■ 975	---
Barium	ppm	■ 0	■ 0	■ 0	---
Boron	ppm	■ <1	■ 4	■ 4	---

Depot: VP297371
Unique No: 10953992
Signed: Sean Felton
Report Date: 03 Apr 2024

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GRAPHS

