

OIL ANALYSIS REPORT

VOLVO PENTA

RICHARD CANNY VOLVO PENTA A186554 - PORT DIESEL ENGINE

Sample No: VPA042455

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

SAMPLE INFORMATION

Sample Number	VPA042455	VPA037106	---	---
Sample Date	15 Feb 2023	24 Feb 2022	---	---
Machine Hours	372	307	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	NORMAL	---	---

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	█ 14.3	█ 13.1	---	---
Base Number (BN)	mg KOH/g	█ 10.0	█ 9.4	---	---
Oxidation (PA)	%	55	53	---	---

Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Chromium, iron and nickel ppm levels are abnormal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 1.6	█ 0.5	---	---
Nitration (PA)	%	68	52	---	---
Sulfation (PA)	%	63	47	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 16	█ 7	---	---
Sodium	ppm	█ 5	█ 2	---	---
Potassium	ppm	█ 6	█ 0	---	---

WEAR METALS

Iron	ppm	▲ 301	█ 38	---	---
Copper	ppm	█ 34	█ 7	---	---
Lead	ppm	█ 3	█ 2	---	---
Tin	ppm	█ 2	█ 2	---	---
Aluminum	ppm	█ 41	█ 7	---	---
Chromium	ppm	▲ 20	█ 3	---	---
Molybdenum	ppm	█ 56	█ 57	---	---
Nickel	ppm	▲ 6	█ <1	---	---
Titanium	ppm	█ <1	█ <1	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ 3	█ <1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	█ 1010	█ 1048	---	---
Magnesium	ppm	█ 901	█ 915	---	---
Zinc	ppm	█ 1163	█ 1106	---	---
Phosphorus	ppm	█ 1092	█ 983	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 45	█ 19	---	---

Depot: VP297371

Unique No: 10351216

Signed: Angela Borella

Report Date: 27 Feb 2023

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GRAPHS

