

OIL ANALYSIS REPORT

VOLVO PENTA

BOB FARRIS 505661 VOLVO PENTA A329320 - STARBOARD DIESEL ENGINE

Sample No: VPA059419

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA059419	VPA042757	---	---
Sample Date	01 Dec 2023	13 Dec 2022	---	---
Machine Hours	545	508	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	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	█ 13.8	█ 13.4	---	---
Base Number (BN)	mg KOH/g	█ 9.6	█ 11.0	---	---
Oxidation (PA)	%	54	60	---	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. 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	NEG	---	---
Soot %	%	█ 0.2	█ 0.3	---	---
Nitration (PA)	%	44	53	---	---
Sulfation (PA)	%	50	56	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	< 1.0	< 1.0	---	---
Silicon	ppm	█ 3	█ 2	---	---
Sodium	ppm	█ 0	█ 0	---	---
Potassium	ppm	█ 2	█ 1	---	---

WEAR METALS

Iron	ppm	█ 11	█ 14	---	---
Copper	ppm	█ 3	█ 4	---	---
Lead	ppm	█ 0	█ < 1	---	---
Tin	ppm	█ 0	█ < 1	---	---
Aluminum	ppm	█ 1	█ 1	---	---
Chromium	ppm	█ < 1	█ < 1	---	---
Molybdenum	ppm	█ 58	█ 58	---	---
Nickel	ppm	█ 0	█ 0	---	---
Titanium	ppm	█ 0	█ 0	---	---
Silver	ppm	█ 0	█ 1	---	---
Manganese	ppm	█ 0	█ < 1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	█ 1019	█ 1035	---	---
Magnesium	ppm	█ 883	█ 879	---	---
Zinc	ppm	█ 1130	█ 1163	---	---
Phosphorus	ppm	█ 919	█ 982	---	---
Barium	ppm	█ 2	█ 0	---	---
Boron	ppm	█ 4	█ 2	---	---

Depot: VP297371
Unique No: 10775995
Signed: Don Baldrige
Report Date: 07 Dec 2023

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GRAPHS

