

OIL ANALYSIS REPORT



BILL YATES 506053 VOLVO PENTA 7011349475 - PORT DIESEL ENGINE

Sample No: VPA048788

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

SAMPLE INFORMATION

Sample Number	VPA048788	VPA035457	VPA031664	---
Sample Date	15 Mar 2024	03 Feb 2022	03 Nov 2020	---
Machine Hours	192	175	159	---
Oil Hours	26	0	32	---
Oil Changed	Changed	Changed	Not Changd	---
Sample Status	ATTENTION	ATTENTION	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	12.0	11.9	12.2	---
Base Number (BN)	mg KOH/g	8.6	9.5	---	---
Oxidation (PA)	%	59	63	59	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.4	0.4	0.3	---
Nitration (PA)	%	53	57	53	---
Sulfation (PA)	%	52	55	53	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	1.9	<1.0	---
Silicon	ppm	24	28	26	---
Sodium	ppm	2	2	2	---
Potassium	ppm	3	3	2	---

Diagnosis

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. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

WEAR METALS

Iron	ppm	16	19	18	---
Copper	ppm	102	109	110	---
Lead	ppm	3	4	2	---
Tin	ppm	2	2	2	---
Aluminum	ppm	3	2	0	---
Chromium	ppm	2	1	2	---
Molybdenum	ppm	11	1	4	---
Nickel	ppm	2	2	2	---
Titanium	ppm	<1	<1	<1	---
Silver	ppm	0	<1	0	---
Manganese	ppm	1	1	1	---
Vanadium	ppm	<1	0	0	---

ADDITIVES

Calcium	ppm	2071	2491	2158	---
Magnesium	ppm	175	31	66	---
Zinc	ppm	1137	1225	1122	---
Phosphorus	ppm	985	1102	982	---
Barium	ppm	0	0	0	---
Boron	ppm	16	156	23	---

Depot: VP297371
Unique No: 10937588
Signed: Jonathan Hester
Report Date: 22 Mar 2024

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GRAPHS

