

OIL ANALYSIS REPORT



MICHAEL MULHERN 505700 VOLVO PENTA 7008434773 - PORT DIESEL ENGINE

Sample No: VPA062107
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

SAMPLE INFORMATION

Sample Number	VPA062107	VPA044401	VPA029996	VPA032320
Sample Date	19 Mar 2024	02 Mar 2023	10 Jan 2022	10 Mar 2021
Machine Hours	0	413	349	597
Oil Hours	0	64	100	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	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	14.6	13.5	13.4	13.7
Base Number (BN)	mg KOH/g	7.7	10.4	11.1	---
Oxidation (PA)	%	55	54	60	55

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.9	0.3	0.4	0.1
Nitration (PA)	%	64	46	53	40
Sulfation (PA)	%	54	53	57	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	11	10	12	4
Sodium	ppm	2	1	2	2
Potassium	ppm	1	<1	<1	<1

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.

WEAR METALS

Iron	ppm	13	6	12	3
Copper	ppm	27	17	38	3
Lead	ppm	<1	0	<1	0
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	3	<1	0	<1
Chromium	ppm	1	<1	<1	<1
Molybdenum	ppm	74	61	56	56
Nickel	ppm	2	<1	<1	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	<1	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	2046	1071	1071	1167
Magnesium	ppm	189	944	940	978
Zinc	ppm	1250	1283	1043	1244
Phosphorus	ppm	1070	1046	1009	1096
Barium	ppm	0	0	0	0
Boron	ppm	95	2	11	3

Depot: VP297371
Unique No: 10940229
Signed: Don Baldrige
Report Date: 25 Mar 2024

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**VOLVO
PENTA**

GRAPHS

