

OIL ANALYSIS REPORT



BERNARD PETERS 505801 VOLVO PENTA 7008471814 - PORT DIESEL ENGINE

Sample No: VPA057303
Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA057303	VPA055297	VPA044446	VPA034129
Sample Date	13 Mar 2024	10 Aug 2023	17 Mar 2023	24 Feb 2022
Machine Hours	509	475	403	293
Oil Hours	509	70	150	100
Oil Changed	Changed	Not Changd	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	13.5	13.5	13.6	13.6
Base Number (BN)	mg KOH/g	10.0	10.3	10.5	11.2
Oxidation (PA)	%	55	54	57	61

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.3	0.5	0.4
Nitration (PA)	%	48	44	53	53
Sulfation (PA)	%	52	51	56	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	10	8	12	11
Sodium	ppm	1	0	1	1
Potassium	ppm	1	<1	<1	0

Diagnosis

Resample at the next service interval to monitor. Metal levels are typical for a new component breaking in. 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	8	8	10	9
Copper	ppm	21	19	33	26
Lead	ppm	0	<1	0	1
Tin	ppm	<1	0	0	0
Aluminum	ppm	2	<1	<1	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	61	66	59	60
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	<1	0	0	0
Silver	ppm	<1	1	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	1149	1195	1104	1069
Magnesium	ppm	980	979	942	1016
Zinc	ppm	1272	1260	1306	1245
Phosphorus	ppm	1105	1083	974	1081
Barium	ppm	0	2	0	0
Boron	ppm	1	0	0	2

Depot: VP297371
Unique No: 10940239
Signed: Sean Felton
Report Date: 26 Mar 2024

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VOLVO PENTA

GRAPHS

