

OIL ANALYSIS REPORT



STELLA 43679 VOLVO PENTA A361183 - PORT DIESEL ENGINE

Sample No: VPA050989
 Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA050989	VPA049774	VPA047483	VPA055382
Sample Date	02 Jan 2024	18 Dec 2023	28 Nov 2023	03 Nov 2023
Machine Hours	1120	1117	1108	1105
Oil Hours	0	0	0	0
Oil Changed	Changed	N/A	N/A	Not Changd
Sample Status	NORMAL	ABNORMAL	ABNORMAL	ABNORMAL

COASTAL CAROLINA YACHT SALES
 145 LOCKWOOD BLVD
 CHARLESTON, SC
 US 29403
 Contact: STEVE VASAS
 steve@ccyachtsales.com
 T:
 F:

OIL CONDITION

Visc @ 100°C	cSt	13.8	13.8	14.04	13.8
Base Number (BN)	mg KOH/g	9.7	9.9	9.1	10.1
Oxidation (PA)	%	53	58	57	58

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0.1	0.1	0.1
Nitration (PA)	%	37	45	44	44
Sulfation (PA)	%	49	52	51	52
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	5	4
Sodium	ppm	2	10	9	9
Potassium	ppm	1	4	2	3

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 suitable for further service.

WEAR METALS

Iron	ppm	3	14	15	13
Copper	ppm	2	5	5	4
Lead	ppm	0	<1	<1	1
Tin	ppm	<1	<1	0	0
Aluminum	ppm	7	29	26	23
Chromium	ppm	<1	4	3	3
Molybdenum	ppm	50	50	48	50
Nickel	ppm	0	1	<1	<1
Titanium	ppm	<1	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	<1	0	<1
Vanadium	ppm	<1	<1	<1	0

ADDITIVES

Calcium	ppm	973	1180	1213	1231
Magnesium	ppm	856	838	827	821
Zinc	ppm	1153	1258	1241	1137
Phosphorus	ppm	958	1082	1129	865
Barium	ppm	0	0	0	0
Boron	ppm	5	28	32	26

Depot: VP568144
 Unique No: 10815748
 Signed: Jonathan Hester
 Report Date: 04 Jan 2024

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VOLVO PENTA

GRAPHS

