

OIL ANALYSIS REPORT



CRAIG CHRISTIANSEN 45112 VOLVO PENTA A1087460 - STARBOARD DIESEL ENGINE

Sample No: VPA054023
Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA054023	VPA056950	VPA042848	---
Sample Date	25 Jun 2024	15 Jun 2023	04 Aug 2022	---
Machine Hours	582	477	360	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	N/A	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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	13.1	13.3	13.2	---
Base Number (BN)	mg KOH/g	10.0	9.8	11.0	---
Oxidation (PA)	%	55	62	61	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.4	0.6	0.5	---
Nitration (PA)	%	49	52	58	---
Sulfation (PA)	%	51	56	59	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	4	5	8	---
Sodium	ppm	1	<1	2	---
Potassium	ppm	<1	0	0	---

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	16	21	20	---
Copper	ppm	5	6	10	---
Lead	ppm	1	2	2	---
Tin	ppm	<1	<1	1	---
Aluminum	ppm	2	4	4	---
Chromium	ppm	<1	<1	1	---
Molybdenum	ppm	59	61	59	---
Nickel	ppm	<1	<1	<1	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	<1	---
Manganese	ppm	0	<1	<1	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	1050	1044	1063	---
Magnesium	ppm	928	966	938	---
Zinc	ppm	1182	1234	1261	---
Phosphorus	ppm	997	1009	1017	---
Barium	ppm	0	0	<1	---
Boron	ppm	2	<1	6	---

Depot: VP568144
Unique No: 11110440
Signed: Don Baldrige
Report Date: 05 Jul 2024

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VOLVO PENTA

GRAPHS

