

OIL ANALYSIS REPORT

VOLVO PENTA

BRUCE DYER VOLVO PENTA 2013754063 - STARBOARD DIESEL ENGINE

Sample No: VPA047491
Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA047491	VPA037605	---	---
Sample Date	06 Dec 2023	18 Aug 2021	---	---
Machine Hours	1298	511	---	---
Oil Hours	0	70	---	---
Oil Changed	Not Changd	Not Changd	---	---
Sample Status	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	13.7	13.3	---	---
Base Number (BN)	mg KOH/g	7.7	---	---	---
Oxidation (PA)	%	57	53	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.4	0.9	---	---
Nitration (PA)	%	53	51	---	---
Sulfation (PA)	%	52	56	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	4	8	---	---
Sodium	ppm	<1	1	---	---
Potassium	ppm	2	2	---	---

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	8	13	---	---
Copper	ppm	<1	38	---	---
Lead	ppm	0	<1	---	---
Tin	ppm	0	<1	---	---
Aluminum	ppm	1	0	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	48	61	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	0	<1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	1365	1078	---	---
Magnesium	ppm	582	922	---	---
Zinc	ppm	1156	1156	---	---
Phosphorus	ppm	1024	1017	---	---
Barium	ppm	3	0	---	---
Boron	ppm	31	5	---	---

Depot: VP568144
Unique No: 10778820
Signed: Doug Bogart
Report Date: 11 Dec 2023

OIL ANALYSIS REPORT

VOLVO PENTA

GRAPHS

