

OIL ANALYSIS REPORT



JOSH KIRCHNER VOLVO PENTA 4012230535 - STARBOARD GASOLINE ENGINE

Sample No: VPA057010
Oil Type: VOLVO PENTA 10W40 SYNTHETIC

SAMPLE INFORMATION

Sample Number	VPA057010	VPA046392	---	---
Sample Date	10 Dec 2023	06 Feb 2023	---	---
Machine Hours	0	0	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

BAY MARINE
 3 E MADISON ST
 WAUKEGAN, IL
 US 60085
 Contact: BRENDAN COWHEY
 brendan@baymarine.net
 T: (847)336-2628
 F:

OIL CONDITION

Visc @ 100°C	cSt	13.2	15.5	---	---
Base Number (BN)	mg KOH/g	7.0	9.6	---	---
Oxidation (PA)	%	11	11	---	---

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.

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.1	0.1	---	---
Nitration (PA)	%	8	9	---	---
Sulfation (PA)	%	11	10	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	6	7	---	---
Sodium	ppm	0	<1	---	---
Potassium	ppm	0	1	---	---

WEAR METALS

Iron	ppm	8	10	---	---
Copper	ppm	68	10	---	---
Lead	ppm	<1	1	---	---
Tin	ppm	0	<1	---	---
Aluminum	ppm	1	2	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	42	69	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	0	<1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	1583	1175	---	---
Magnesium	ppm	110	668	---	---
Zinc	ppm	849	1295	---	---
Phosphorus	ppm	584	1028	---	---
Barium	ppm	0	0	---	---
Boron	ppm	5	79	---	---

Depot: VP1174336
Unique No: 10780095
Signed: Don Baldrige
Report Date: 13 Dec 2023

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GRAPHS

