

OIL ANALYSIS REPORT

VOLVO PENTA

320385 YANMAR E04908 - STARBOARD MAIN ENGINE

Sample No: VPA056625
Oil Type: SHELL ROTELLA T4 15W40

SAMPLE INFORMATION

Sample Number	VPA056625	---	---	---
Sample Date	16 Feb 2024	---	---	---
Machine Hours	3066	---	---	---
Oil Hours	2	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

HINDSON MARINE SERVICE INC
79 CHAMPLAIN ROAD, P.O. BOX 5025
Penetanguishene, ON
CA L9M 2G2
Contact: Brian Berriault
brian@hindsonmarina.com
T: (705)549-2004
F: (705)549-3138

OIL CONDITION

Visc @ 100°C	cSt	█ 14.4	---	---	---
Oxidation (PA)	%	68	---	---	---

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0	---	---	---
Nitration (PA)	%	49	---	---	---
Sulfation (PA)	%	57	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 9	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 7	---	---	---

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 condition of the oil is acceptable for the time in service.

WEAR METALS

Iron	ppm	█ 4	---	---	---
Copper	ppm	█ < 1	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ 0	---	---	---
Molybdenum	ppm	█ 6	---	---	---
Nickel	ppm	█ < 1	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 0	---	---	---
Vanadium	ppm	█ 0	---	---	---

ADDITIVES

Calcium	ppm	█ 2018	---	---	---
Magnesium	ppm	█ 74	---	---	---
Zinc	ppm	█ 1071	---	---	---
Phosphorus	ppm	█ 945	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	147	---	---	---

Depot: ROB79PEN
Unique No: 5736001
Signed: Kevin Marson
Report Date: 29 Feb 2024

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GRAPHS

