

OIL ANALYSIS REPORT



RICK DAMORE 507112 YANMAR 3JHZE - MAIN ENGINE

Sample No: VPA059605

Oil Type: SHELL ROTELLA T3 15W40

SAMPLE INFORMATION

Sample Number	VPA059605	VPA047949	VPA033129	---
Sample Date	15 Nov 2023	04 Dec 2022	11 Nov 2021	---
Machine Hours	841	0	0	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	N/A	---
Sample Status	NORMAL	NORMAL	NORMAL	---

Seaborn Marina Inc.

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OIL CONDITION

Visc @ 100°C	cSt	14.2	14.7	14.6	---
Base Number (BN)	mg KOH/g	8.4	10.7	---	---
Oxidation (PA)	%	62	62	73	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0	0.1	0.1	---
Nitration (PA)	%	42	50	49	---
Sulfation (PA)	%	53	55	58	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	15	8	17	---
Sodium	ppm	0	2	3	---
Potassium	ppm	7	3	6	---

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	2	2	4	---
Copper	ppm	2	<1	3	---
Lead	ppm	0	1	<1	---
Tin	ppm	0	<1	<1	---
Aluminum	ppm	1	<1	1	---
Chromium	ppm	0	<1	<1	---
Molybdenum	ppm	7	42	2	---
Nickel	ppm	0	<1	0	---
Titanium	ppm	<1	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	0	<1	<1	---
Vanadium	ppm	0	<1	0	---

ADDITIVES

Calcium	ppm	2019	1609	1992	---
Magnesium	ppm	13	432	47	---
Zinc	ppm	1037	1216	1073	---
Phosphorus	ppm	917	932	905	---
Barium	ppm	0	0	0	---
Boron	ppm	234	85	190	---

Depot: VP543511
Unique No: 10750534
Signed: Sean Felton
Report Date: 21 Nov 2023

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**VOLVO
PENTA**

GRAPHS

