

OIL ANALYSIS REPORT



CRAIG CHRISTIANSEN 45112 CUMMINS ONAN H190630351 - GENSET

Sample No: VPA054024

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA054024	VPA043062	VPA042846	---
Sample Date	25 Jun 2024	15 Jun 2023	04 Aug 2022	---
Machine Hours	682	583	423	---
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

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OIL CONDITION

Visc @ 100°C	cSt	12.6	12.6	12.6	---
Base Number (BN)	mg KOH/g	9.7	9.6	10.8	---
Oxidation (PA)	%	56	63	65	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.1	0.1	0.1	---
Nitration (PA)	%	44	45	56	---
Sulfation (PA)	%	50	54	56	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	7	10	13	---
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	4	6	9	---
Copper	ppm	<1	<1	5	---
Lead	ppm	0	0	<1	---
Tin	ppm	0	<1	<1	---
Aluminum	ppm	2	2	2	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	57	59	57	---
Nickel	ppm	0	0	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	<1	---
Manganese	ppm	0	<1	<1	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	1024	1069	1240	---
Magnesium	ppm	919	953	828	---
Zinc	ppm	1170	1204	1225	---
Phosphorus	ppm	992	991	988	---
Barium	ppm	0	0	3	---
Boron	ppm	3	5	21	---

Depot: VP568144

Unique No: 11110439

Signed: Don Baldrige

Report Date: 05 Jul 2024

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VOLVO PENTA

GRAPHS

