

OIL ANALYSIS REPORT

VOLVO PENTA

ALLOS 354002 CUMMINS 74051054 - STARBOARD DIESEL ENGINE

Sample No: VPA052233

Oil Type: SHELL ROTELLA T4 15W40

SAMPLE INFORMATION

Sample Number	VPA052233	---	---	---
Sample Date	19 Feb 2024	---	---	---
Machine Hours	259	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

Skipper Marine of Ohio, LLC

6801 E. Harbor Rd.

MARBLEHEAD, OH

US 43440

Contact: D LAKE

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F:

OIL CONDITION

Visc @ 100°C	cSt	█ 14.2	---	---	---
Base Number (BN)	mg KOH/g	█ 8.6	---	---	---
Oxidation (PA)	%	65	---	---	---

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	---	---	---
Soot %	%	█ 0.5	---	---	---
Nitration (PA)	%	53	---	---	---
Sulfation (PA)	%	57	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 3	---	---	---
Sodium	ppm	█ 0	---	---	---
Potassium	ppm	█ 6	---	---	---

WEAR METALS

Iron	ppm	█ 9	---	---	---
Copper	ppm	█ 10	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ < 1	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ < 1	---	---	---
Molybdenum	ppm	█ 3	---	---	---
Nickel	ppm	█ < 1	---	---	---
Titanium	ppm	█ < 1	---	---	---
Silver	ppm	█ < 1	---	---	---
Manganese	ppm	█ 0	---	---	---
Vanadium	ppm	< 1	---	---	---

ADDITIVES

Calcium	ppm	█ 1832	---	---	---
Magnesium	ppm	9	---	---	---
Zinc	ppm	█ 970	---	---	---
Phosphorus	ppm	█ 886	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 168	---	---	---

Depot: VP494046

Unique No: 10889476

Signed: Sean Felton

Report Date: 23 Feb 2024

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GRAPHS

