

OIL ANALYSIS REPORT

VOLVO PENTA

UNDERDOWN VOLVO PENTA 2071181845 - STARBOARD DIESEL ENGINE

Sample No: VPA044019

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA044019	---	---	---
Sample Date	17 Oct 2023	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

Walstrom Marine - 767948

501 Bay Street
HARBOR SPRINGS, MI
US 49740

Contact: RICK HEINY
rheiny@walstrom.com

T:
F:

OIL CONDITION

Visc @ 100°C	cSt	█ 14.4	---	---	---
Base Number (BN)	mg KOH/g	█ 8.7	---	---	---
Oxidation (PA)	%	67	---	---	---

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 suitable for further service.

CONTAMINATION

Soot %	%	█ 0.5	---	---	---
Nitration (PA)	%	57	---	---	---
Sulfation (PA)	%	58	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 4	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 9	---	---	---

WEAR METALS

Iron	ppm	█ 7	---	---	---
Copper	ppm	█ 20	---	---	---
Lead	ppm	█ 6	---	---	---
Tin	ppm	█ 1	---	---	---
Aluminum	ppm	█ 1	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ <1	---	---	---
Nickel	ppm	█ 4	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ <1	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	█ 2400	---	---	---
Magnesium	ppm	█ 26	---	---	---
Zinc	ppm	█ 1357	---	---	---
Phosphorus	ppm	█ 1105	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 182	---	---	---

Depot: VP154879

Unique No: 10708778

Signed: Don Baldrige

Report Date: 25 Oct 2023

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GRAPHS

