

OIL ANALYSIS REPORT

VOLVO PENTA

LIPTON LIPTON VOLVO PENTA A192055 - STARBOARD DIESEL ENGINE

Sample No: VPA048909

Oil Type: SHELL ROTELLA T 15W40

SAMPLE INFORMATION

Sample Number	VPA048909	---	---	---
Sample Date	17 Apr 2024	---	---	---
Machine Hours	645	---	---	---
Oil Hours	25	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	NORMAL	---	---	---

Gary Wood's Marine Inc
3469 SW Palm City School Ave #A
PALM CITY, FL
US 34990
Contact: Barbara Foreman
barbara@garywoodsmarine.com
T: (772)287-6093
F: (772)287-7134

OIL CONDITION

Visc @ 100°C	cSt	█ 14.5	---	---	---
Base Number (BN)	mg KOH/g	█ 9.0	---	---	---
Oxidation (PA)	%	64	---	---	---

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 %	%	█ 0.1	---	---	---
Nitration (PA)	%	43	---	---	---
Sulfation (PA)	%	56	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 8	---	---	---
Sodium	ppm	█ 4	---	---	---
Potassium	ppm	█ 13	---	---	---

WEAR METALS

Iron	ppm	█ 3	---	---	---
Copper	ppm	█ 4	---	---	---
Lead	ppm	█ 6	---	---	---
Tin	ppm	█ < 1	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ < 1	---	---	---
Molybdenum	ppm	█ 3	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	█ < 1	---	---	---
Silver	ppm	█ < 1	---	---	---
Manganese	ppm	█ 0	---	---	---
Vanadium	ppm	< 1	---	---	---

ADDITIVES

Calcium	ppm	█ 2053	---	---	---
Magnesium	ppm	█ 37	---	---	---
Zinc	ppm	█ 1124	---	---	---
Phosphorus	ppm	█ 1005	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 204	---	---	---

Depot: VP152567
Unique No: 10989453
Signed: Don Baldrige
Report Date: 23 Apr 2024

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GRAPHS

