

OIL ANALYSIS REPORT

VOLVO PENTA

JUSTIN DALINGER CATERPILLAR RLA00638 (S/N RLA00636) - STARBOARD DIESEL ENGINE

Sample No: VPA044006

Oil Type: CAT DIESEL ENGINE OIL 15W40

SAMPLE INFORMATION

Sample Number	VPA044006	---	---	---
Sample Date	04 Jun 2024	---	---	---
Machine Hours	4679	---	---	---
Oil Hours	250	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	NORMAL	---	---	---

LIBERTY LANDING MARINE

80 AUDREY ZAPP DR

JERSEY CITY, NJ

US 07305

Contact: JOHN PURINTON

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F:

OIL CONDITION

Visc @ 100°C	cSt	█ 13.1	---	---	---
Base Number (BN)	mg KOH/g	█ 9.8	---	---	---
Oxidation (PA)	%	83	---	---	---

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

Water	%	NEG	---	---	---
Soot %	%	█ 0.6	---	---	---
Nitration (PA)	%	64	---	---	---
Sulfation (PA)	%	64	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 5	---	---	---
Sodium	ppm	█ 4	---	---	---
Potassium	ppm	█ <1	---	---	---

WEAR METALS

Iron	ppm	█ 26	---	---	---
Copper	ppm	█ 28	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ <1	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 38	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	█ 1834	---	---	---
Magnesium	ppm	█ 500	---	---	---
Zinc	ppm	█ 1149	---	---	---
Phosphorus	ppm	█ 988	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 44	---	---	---

Depot: VP454834

Unique No: 11071670

Signed: Sean Felton

Report Date: 12 Jun 2024

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GRAPHS

