

OIL ANALYSIS REPORT

**VOLVO
PENTA**

SOUTH PAW CUMMINS 74108937 - STARBOARD DIESEL ENGINE

Sample No: VPA047505
Oil Type: DIESEL ENGINE OIL SAE 40

SAMPLE INFORMATION

Sample Number	VPA047505	---	---	---
Sample Date	26 Apr 2024	---	---	---
Machine Hours	562	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

BEST MARINE
24 RIVERVIEW AVE
TARRYTOWN, NY
US 10591
Contact: PETE ROESTENBERG
PETEMARINE27@OUTLOOK.COM
T: (516)807-5340
F:

OIL CONDITION

Visc @ 100°C	cSt	█ 14.3	---	---	---
Base Number (BN)	mg KOH/g	█ 8.2	---	---	---
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 %	%	█ 0.7	---	---	---
Nitration (PA)	%	94	---	---	---
Sulfation (PA)	%	61	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	< 1.0	---	---	---
Silicon	ppm	█ 8	---	---	---
Sodium	ppm	█ 8	---	---	---
Potassium	ppm	█ 2	---	---	---

WEAR METALS

Iron	ppm	█ 44	---	---	---
Copper	ppm	█ 60	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 2	---	---	---
Aluminum	ppm	█ 19	---	---	---
Chromium	ppm	█ 4	---	---	---
Molybdenum	ppm	█ 51	---	---	---
Nickel	ppm	█ 3	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	< 1	---	---	---

ADDITIVES

Calcium	ppm	█ 1419	---	---	---
Magnesium	ppm	█ 909	---	---	---
Zinc	ppm	█ 1042	---	---	---
Phosphorus	ppm	█ 839	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 23	---	---	---

Depot: VPBESTAR
Unique No: 11008467
Signed: Jonathan Hester
Report Date: 07 May 2024

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GRAPHS

