

OIL ANALYSIS REPORT

VOLVO PENTA

COSGROVE VOLVO PENTA A1080853 - STARBOARD DIESEL ENGINE

Sample No: VPA021881
Oil Type: NOT GIVEN

SAMPLE INFORMATION

Sample Number	VPA021881	---	---	---
Sample Date	06 Nov 2023	---	---	---
Machine Hours	50	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

Outstanding Marine
PO Box 274
GALENA, MD
US 21635
Contact: Ronda Bolinger
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T:
F:

OIL CONDITION

Visc @ 100°C	cSt	█ 14.63	---	---	---
Base Number (BN)	mg KOH/g	█ 9.8	---	---	---
Oxidation (PA)	%	56	---	---	---

CONTAMINATION

Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	43	---	---	---
Sulfation (PA)	%	51	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 5	---	---	---
Sodium	ppm	█ 0	---	---	---
Potassium	ppm	█ 2	---	---	---

Diagnosis

No corrective action is recommended at this time. 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 condition of the oil is acceptable for the time in service.

WEAR METALS

Iron	ppm	█ 10	---	---	---
Copper	ppm	█ 3	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 59	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	<1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 1032	---	---	---
Magnesium	ppm	█ 891	---	---	---
Zinc	ppm	█ 1105	---	---	---
Phosphorus	ppm	█ 1007	---	---	---
Barium	ppm	█ 5	---	---	---
Boron	ppm	█ 6	---	---	---

Depot: VP153685
Unique No: 10729237
Signed: Doug Bogart
Report Date: 07 Nov 2023

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GRAPHS

