

OIL ANALYSIS REPORT

VOLVO PENTA

SURVEY ANAPOLIS YC DOUG NELSON VOLVO PENTA 2006021826 - STARBOARD DIESEL ENGINE

Sample No: VPA047029

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA047029	VPA009368	---	---
Sample Date	31 Jul 2023	18 May 2018	---	---
Machine Hours	502	367	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	Not Changd	---	---
Sample Status	ABNORMAL	NORMAL	---	---

Suncoast Diesel Marine Inc.

610 Mount Vernan St
OLDSMAR, FL
US 34677
Contact: MARK WARREN
oldsmar@suncoastdmi.com
T: (813)475-5942
F: (813)475-5943

OIL CONDITION

Visc @ 100°C	cSt	█ 13.3	█ 13.44	---	---
Base Number (BN)	mg KOH/g	█ 7.4	---	---	---
Oxidation (PA)	%	█ 57	█ 48	---	---

CONTAMINATION

Soot %	%	█ 0.1	█ 0.1	---	---
Nitration (PA)	%	█ 48	█ 50	---	---
Sulfation (PA)	%	█ 50	█ 44	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	▲ 55	█ 4	---	---
Sodium	ppm	█ <1	█ 3	---	---
Potassium	ppm	█ <1	█ 13	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. 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.

WEAR METALS

Iron	ppm	█ 7	█ 7	---	---
Copper	ppm	█ <1	█ 2	---	---
Lead	ppm	█ 0	█ 0	---	---
Tin	ppm	█ <1	█ 0	---	---
Aluminum	ppm	█ 11	█ 2	---	---
Chromium	ppm	█ <1	█ <1	---	---
Molybdenum	ppm	█ 63	█ 61	---	---
Nickel	ppm	█ 0	█ <1	---	---
Titanium	ppm	█ 0	█ <1	---	---
Silver	ppm	█ <1	█ 0	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	█ 0	█ 0	---	---

ADDITIVES

Calcium	ppm	█ 1101	1110	---	---
Magnesium	ppm	█ 1062	█ 1012	---	---
Zinc	ppm	█ 1357	█ 1074	---	---
Phosphorus	ppm	█ 1122	█ 962	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 3	8	---	---

Depot: VP945077
Unique No: 10586907
Signed: Doug Bogart
Report Date: 06 Aug 2023

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GRAPHS

