

OIL ANALYSIS REPORT

**VOLVO
PENTA**

VOLVO PENTA 70112025213 - STARBOARD DIESEL ENGINE

Sample No: VPA045179

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA045179	---	---	---
Sample Date	18 Jul 2023	---	---	---
Machine Hours	115	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 14.8	---	---	---
Base Number (BN)	mg KOH/g	█ 10.5	---	---	---
Oxidation (PA)	%	█ 32	---	---	---

CONTAMINATION

Soot %	%	█ 0.1	---	---	---
Nitration (PA)	%	█ 29	---	---	---
Sulfation (PA)	%	█ 68	---	---	---
Glycol	%	█ NEG	---	---	---
Fuel	%	█ <1.0	---	---	---
Silicon	ppm	█ 17	---	---	---
Sodium	ppm	█ 4	---	---	---
Potassium	ppm	█ 3	---	---	---

WEAR METALS

Iron	ppm	█ 111	---	---	---
Copper	ppm	█ 9	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ <1	---	---	---
Chromium	ppm	█ 1	---	---	---
Molybdenum	ppm	█ <1	---	---	---
Nickel	ppm	█ 1	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 1	---	---	---
Manganese	ppm	█ 4	---	---	---
Vanadium	ppm	█ <1	---	---	---

ADDITIVES

Calcium	ppm	█ 15	---	---	---
Magnesium	ppm	█ 66	---	---	---
Zinc	ppm	█ 4	---	---	---
Phosphorus	ppm	█ 1359	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 345	---	---	---

SUNCOAST DIESEL MARINE

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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.

Depot: VP705283
Unique No: 10572990
Signed: Angela Borella
Report Date: 27 Jul 2023

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GRAPHS

