

OIL ANALYSIS REPORT

VOLVO PENTA

VOLVO PENTA A606849 - STARBOARD DIESEL ENGINE

Sample No: VPA056106

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA056106	VPA027590	---	---
Sample Date	27 Jul 2023	26 Aug 2020	---	---
Machine Hours	387	295	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	Not Changd	---	---
Sample Status	NORMAL	NORMAL	---	---

SUNCOAST DIESEL MARINE

6341 PORTER ROAD, SUITE 6
SARASOTA, FL
US 34240
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OIL CONDITION

Visc @ 100°C	cSt	█ 13.8	█ 13.62	---	---
Base Number (BN)	mg KOH/g	█ 9.6	---	---	---
Oxidation (PA)	%	52	57	---	---

CONTAMINATION

Soot %	%	█ 0.2	█ 0.3	---	---
Nitration (PA)	%	43	52	---	---
Sulfation (PA)	%	50	54	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 5	█ 8	---	---
Sodium	ppm	█ 1	█ 2	---	---
Potassium	ppm	█ <1	█ 4	---	---

WEAR METALS

Iron	ppm	█ 24	█ 24	---	---
Copper	ppm	█ 4	█ 7	---	---
Lead	ppm	█ <1	█ 4	---	---
Tin	ppm	█ <1	█ 0	---	---
Aluminum	ppm	█ 1	█ 3	---	---
Chromium	ppm	█ <1	█ 1	---	---
Molybdenum	ppm	█ 56	█ 55	---	---
Nickel	ppm	█ 2	█ 3	---	---
Titanium	ppm	█ 0	█ <1	---	---
Silver	ppm	█ 0	█ <1	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	<1	0	---	---

ADDITIVES

Calcium	ppm	█ 1044	█ 1036	---	---
Magnesium	ppm	█ 988	█ 889	---	---
Zinc	ppm	█ 1211	█ 1098	---	---
Phosphorus	ppm	█ 975	█ 948	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ <1	█ 3	---	---

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 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: 10579808
Signed: Doug Bogart
Report Date: 03 Aug 2023

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GRAPHS

