

OIL ANALYSIS REPORT

VOLVO PENTA

VOLVO PENTA 2006022252 - STARBOARD DIESEL ENGINE

Sample No: VPA058164

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA058164	VPA04282223	VPA009718	---
Sample Date	10 Mar 2024	09 Aug 2017	07 Dec 2016	---
Machine Hours	1352	532	525	---
Oil Hours	0	0	0	---
Oil Changed	N/A	Not Changd	Not Changd	---
Sample Status	NORMAL	NORMAL	NORMAL	---

SUNCOAST DIESEL MARINE

6341 PORTER ROAD, SUITE 6
SARASOTA, FL
US 34240
Contact: SERVICE MANAGER
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OIL CONDITION

Visc @ 100°C	cSt	█ 13.48	█ 14.06	█ 14.9	---
Base Number (BN)	mg KOH/g	█ 9.3	---	---	---
Oxidation (PA)	%	█ 68	█ 44	█ 64	---

CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	█ 0.2	█ 0	█ 0.2	---
Nitration (PA)	%	█ 68	█ 42	█ 75	---
Sulfation (PA)	%	█ 57	█ 44	█ 58	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	█ 4	█ 4	█ 9	---
Sodium	ppm	█ 2	█ 4	█ 12	---
Potassium	ppm	█ 0	█ 0	█ 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 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	█ 11	█ 39	█ 95	---
Copper	ppm	█ 5	█ 2	█ 4	---
Lead	ppm	█ 4	█ <1	█ <1	---
Tin	ppm	█ <1	█ <1	█ 2	---
Aluminum	ppm	█ 4	█ 4	█ 7	---
Chromium	ppm	█ <1	█ <1	█ 3	---
Molybdenum	ppm	█ 58	█ 50	█ 39	---
Nickel	ppm	█ 0	█ <1	█ 2	---
Titanium	ppm	█ 0	█ 2	█ 19	---
Silver	ppm	█ 0	█ 0	█ 0	---
Manganese	ppm	█ <1	█ <1	█ 1	---
Vanadium	ppm	█ 0	█ 0	█ 0	---

ADDITIVES

Calcium	ppm	█ 1008	█ 938	█ 1473	---
Magnesium	ppm	█ 922	█ 795	█ 745	---
Zinc	ppm	█ 1223	█ 948	█ 1197	---
Phosphorus	ppm	█ 1029	█ 864	█ 936	---
Barium	ppm	█ 0	█ 0	█ 0	---
Boron	ppm	█ 5	█ 7	█ 30	---

Depot: VP705283
Unique No: 10923583
Signed: Doug Bogart
Report Date: 11 Mar 2024

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GRAPHS

