

OIL ANALYSIS REPORT

VOLVO PENTA

VOLVO PENTA A193859 - STARBOARD DIESEL ENGINE

Sample No: VPA054226

Oil Type: DIESEL ENGINE OIL SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA054226	---	---	---
Sample Date	23 May 2024	---	---	---
Machine Hours	429	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changd	---	---	---
Sample Status	MARGINAL	---	---	---

SUNCOAST DIESEL MARINE

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

Visc @ 100°C	cSt	█ 13.87	---	---	---
Base Number (BN)	mg KOH/g	█ 9.3	---	---	---
Oxidation (PA)	%	57	---	---	---

CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.3	---	---	---
Nitration (PA)	%	53	---	---	---
Sulfation (PA)	%	53	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 8	---	---	---
Sodium	ppm	█ 3	---	---	---
Potassium	ppm	█ 1	---	---	---

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The aluminum level is abnormal. All other 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 suitable for further service.

WEAR METALS

Iron	ppm	█ 27	---	---	---
Copper	ppm	█ 6	---	---	---
Lead	ppm	█ 9	---	---	---
Tin	ppm	█ 2	---	---	---
Aluminum	ppm	▲ 15	---	---	---
Chromium	ppm	█ 1	---	---	---
Molybdenum	ppm	█ 53	---	---	---
Nickel	ppm	█ 2	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ <1	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	0	---	---	---

ADDITIVES

Calcium	ppm	█ 1255	---	---	---
Magnesium	ppm	█ 922	---	---	---
Zinc	ppm	█ 1291	---	---	---
Phosphorus	ppm	█ 1006	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 17	---	---	---

Depot: VP705283
Unique No: 11047677
Signed: Doug Bogart
Report Date: 24 May 2024

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GRAPHS

