

OIL ANALYSIS REPORT

VOLVO PENTA

PLATYPUS MARINE SAM VOLVO PENTA A1089722 - STARBOARD DIESEL ENGINE

Sample No: VPA055633
Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA055633	---	---	---
Sample Date	29 Jun 2023	---	---	---
Machine Hours	0	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 13.3	---	---	---
Base Number (BN)	mg KOH/g	█ 9.6	---	---	---
Oxidation (PA)	%	69	---	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Aluminum ppm levels are abnormal. Piston wear is indicated. 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.

CONTAMINATION

Soot %	%	█ 0.3	---	---	---
Nitration (PA)	%	55	---	---	---
Sulfation (PA)	%	63	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 21	---	---	---
Sodium	ppm	█ 7	---	---	---
Potassium	ppm	█ 8	---	---	---

WEAR METALS

Iron	ppm	█ 27	---	---	---
Copper	ppm	█ 18	---	---	---
Lead	ppm	█ 8	---	---	---
Tin	ppm	█ 2	---	---	---
Aluminum	ppm	▲ 72	---	---	---
Chromium	ppm	█ 5	---	---	---
Molybdenum	ppm	█ 84	---	---	---
Nickel	ppm	█ 3	---	---	---
Titanium	ppm	█ <1	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	<1	---	---	---

ADDITIVES

Calcium	ppm	█ 1576	---	---	---
Magnesium	ppm	█ 610	---	---	---
Zinc	ppm	█ 894	---	---	---
Phosphorus	ppm	731	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	280	---	---	---

Depot: VP794951
Unique No: 10552925
Signed: Angela Borella
Report Date: 14 Jul 2023

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GRAPHS

