

OIL ANALYSIS REPORT

VOLVO PENTA

NOTORIOUS VOLVO PENTA A1082932 - PORT DIESEL ENGINE

Sample No: VPA058061

Oil Type: VOLVO PENTA SAE 15W40

SAMPLE INFORMATION

Sample Number	VPA058061	VPA049883	---	---
Sample Date	08 Dec 2023	02 Oct 2023	---	---
Machine Hours	693	686	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	N/A	---	---
Sample Status	NORMAL	NORMAL	---	---

OIL CONDITION

Visc @ 100°C	cSt	█ 13.8	█ 14.1	---	---
Base Number (BN)	mg KOH/g	█ 10.2	█ 9.3	---	---
Oxidation (PA)	%	53	57	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.3	█ 1.3	---	---
Nitration (PA)	%	42	68	---	---
Sulfation (PA)	%	50	57	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 4	█ 6	---	---
Sodium	ppm	█ 2	█ 3	---	---
Potassium	ppm	█ 2	█ 4	---	---

WEAR METALS

Iron	ppm	█ 8	█ 28	---	---
Copper	ppm	█ 2	█ 9	---	---
Lead	ppm	█ <1	█ <1	---	---
Tin	ppm	█ <1	█ <1	---	---
Aluminum	ppm	█ 2	█ 2	---	---
Chromium	ppm	█ <1	█ <1	---	---
Molybdenum	ppm	█ 59	█ 60	---	---
Nickel	ppm	█ 1	█ 2	---	---
Titanium	ppm	█ <1	█ 0	---	---
Silver	ppm	█ 0	█ 0	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	<1	0	---	---

ADDITIVES

Calcium	ppm	█ 1008	█ 1052	---	---
Magnesium	ppm	█ 947	█ 1005	---	---
Zinc	ppm	█ 1206	█ 1322	---	---
Phosphorus	ppm	█ 983	█ 1060	---	---
Barium	ppm	█ 11	█ 0	---	---
Boron	ppm	█ 0	█ 2	---	---

Marine International Diesels Inc.

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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 suitable for further service.

Depot: VP694356
Unique No: 10782371
Signed: Doug Bogart
Report Date: 14 Dec 2023

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GRAPHS

