

OIL ANALYSIS REPORT

VOLVO PENTA

JERRY KRUSINSKI VOLVO PENTA 70112017103 - STARBOARD DIESEL ENGINE

Sample No: VPA055459

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

SAMPLE INFORMATION

Sample Number	VPA055459	VPA046134	VPA040009	---
Sample Date	24 Oct 2023	30 Sep 2022	02 Jun 2022	---
Machine Hours	0	227	0	---
Oil Hours	0	0	0	---
Oil Changed	N/A	N/A	N/A	---
Sample Status	NORMAL	NORMAL	ABNORMAL	---

OIL CONDITION

Visc @ 100°C	cSt	█ 13.2	█ 12.8	▲ 11.2	---
Base Number (BN)	mg KOH/g	█ 10.3	█ 11.3	█ 8.9	---
Oxidation (PA)	%	55	59	58	---

CONTAMINATION

Soot %	%	█ 0.1	█ 0.2	█ 0.5	---
Nitration (PA)	%	39	48	57	---
Sulfation (PA)	%	51	56	55	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	▲ 2.6	---
Silicon	ppm	█ 7	█ 7	▲ 37	---
Sodium	ppm	█ 2	█ <1	█ 2	---
Potassium	ppm	█ 0	█ 2	█ 4	---

WEAR METALS

Iron	ppm	█ <1	█ 0	█ 19	---
Copper	ppm	█ 4	█ 17	█ 54	---
Lead	ppm	█ 0	█ <1	█ 3	---
Tin	ppm	█ 0	█ <1	█ 3	---
Aluminum	ppm	█ <1	█ 2	▲ 6	---
Chromium	ppm	█ 0	█ <1	█ 3	---
Molybdenum	ppm	█ 59	█ 60	█ 68	---
Nickel	ppm	█ 0	█ 0	█ 0	---
Titanium	ppm	█ 0	█ 0	█ 0	---
Silver	ppm	█ 0	█ 0	█ 1	---
Manganese	ppm	█ <1	█ <1	█ 2	---
Vanadium	ppm	█ 0	█ 0	█ 0	---

ADDITIVES

Calcium	ppm	█ 1029	█ 1075	█ 1175	---
Magnesium	ppm	█ 999	█ 908	█ 889	---
Zinc	ppm	█ 1305	█ 1217	█ 1177	---
Phosphorus	ppm	█ 963	█ 1026	█ 985	---
Barium	ppm	█ 0	█ <1	█ 0	---
Boron	ppm	█ 3	█ 10	█ 45	---

BAY MARINE

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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 acceptable for the time in service.

Depot: VP1174336

Unique No: 10711560

Signed: Sean Felton

Report Date: 27 Oct 2023

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PENTA**

GRAPHS

