

OIL ANALYSIS REPORT

VOLVO PENTA

ALASKA LUXURY TOURS FORGE VOLVO PENTA F3940027716 - STARBOARD IPS

Sample No: VPA035213

Oil Type: VOLVO API GL-5 SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA035213	VPA027641	---	---
Sample Date	04 Oct 2022	11 Jul 2022	---	---
Machine Hours	2119	1687	---	---
Oil Hours	432	340	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	SEVERE	ATTENTION	---	---

OIL CONDITION

Visc @ 40°C	cSt	█ 104	█ 101	---	---
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CONTAMINATION

Water	%	● 1.67	---	---	---
Silicon	ppm	▲ 21	13	---	---
Sodium	ppm	█ 31	█ 1	---	---
Potassium	ppm	█ 3	█ 7	---	---

WEAR METALS

PQ		█ 38	█ 36	---	---
Iron	ppm	▲ 444	▲ 204	---	---
Copper	ppm	█ 28	█ 16	---	---
Lead	ppm	0	<1	---	---
Tin	ppm	<1	0	---	---
Aluminum	ppm	█ 11	3	---	---
Chromium	ppm	█ 5	█ 2	---	---
Molybdenum	ppm	█ <1	█ 0	---	---
Nickel	ppm	█ 5	█ 0	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	<1	<1	---	---
Manganese	ppm	█ 9	█ 8	---	---
Vanadium	ppm	<1	0	---	---

ADDITIVES

Calcium	ppm	█ 0	█ 16	---	---
Magnesium	ppm	█ 17	█ 93	---	---
Zinc	ppm	█ 3	█ 9	---	---
Phosphorus	ppm	█ 1310	█ 1357	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 277	█ 374	---	---

Sundance Mfg Inc

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Diagnosis

We advise that you check for the source of water entry. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Gear wear is indicated. There is a high concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.

Depot: VP154394
Unique No: 10168857
Signed: Jonathan Hester
Report Date: 13 Oct 2022

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GRAPHS

