

OIL ANALYSIS REPORT

VOLVO PENTA

ALASKA LUXURY TOURS APEX VOLVO PENTA 3940021989 - STARBOARD IPS

Sample No: VPA035210
Oil Type: GEAR OIL SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA035210	VPA027920	VPA027290	---
Sample Date	05 Oct 2022	03 May 2021	10 Jul 2020	---
Machine Hours	1821	452	418	---
Oil Hours	245	173	139	---
Oil Changed	Changed	Changed	Not Changd	---
Sample Status	ATTENTION	ABNORMAL	NORMAL	---

Sundance Mfg Inc

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Portland, OR
US 97217
Contact: CLARK HOLMES
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OIL CONDITION

Visc @ 40°C	cSt	█ 104	█ 102	█ 104	---
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CONTAMINATION

Silicon	ppm	█ 15	█ 11	█ 15	---
Sodium	ppm	█ 4	█ 3	█ 2	---
Potassium	ppm	█ 0	█ 2	█ 2	---

WEAR METALS

PQ		█ 41	█ 18	█ 22	---
Iron	ppm	▲ 292	█ 76	█ 77	---
Copper	ppm	█ 15	█ 11	█ 10	---
Lead	ppm	█ 0	█ 0	█ <1	---
Tin	ppm	█ <1	█ <1	█ 0	---
Aluminum	ppm	█ 5	█ 7	█ 9	---
Chromium	ppm	█ 2	█ <1	█ 1	---
Molybdenum	ppm	█ <1	█ <1	█ <1	---
Nickel	ppm	█ 2	█ <1	█ <1	---
Titanium	ppm	█ <1	█ 0	█ 0	---
Silver	ppm	█ 0	█ <1	█ <1	---
Manganese	ppm	█ 4	█ 2	█ 2	---
Vanadium	ppm	█ <1	█ 0	█ 0	---

ADDITIVES

Calcium	ppm	█ 0	█ 6	█ 17	---
Magnesium	ppm	█ 3	█ 5	█ 10	---
Zinc	ppm	█ 0	█ 4	█ 4	---
Phosphorus	ppm	█ 1323	█ 1306	█ 1252	---
Barium	ppm	█ 0	█ 0	█ <1	---
Boron	ppm	█ 300	█ 345	█ 336	---

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Gear wear is indicated. All other component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

Depot: VP154394
Unique No: 10168858
Signed: Don Baldrige
Report Date: 13 Oct 2022

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GRAPHS

