

OIL ANALYSIS REPORT

VOLVO PENTA

ALASKA LUXURY TOURS OPUS VOLVO PENTA 3200005637 - STARBOARD IPS

Sample No: VPA060132
Oil Type: GEAR OIL SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA060132	VPA060124	VPA056364	---
Sample Date	17 Oct 2023	25 Aug 2023	02 Jul 2023	---
Machine Hours	995	787	393	---
Oil Hours	208	394	393	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

Sundance Mfg Inc
570 N.E. Tomahawk Isl. Dr.
Portland, OR
US 97217
Contact: CLARK HOLMES
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F:

OIL CONDITION

Visc @ 40°C	cSt	█ 105	█ 100	█ 88.3	---
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CONTAMINATION

Silicon	ppm	<1	<1	4	---
Sodium	ppm	█ 0	█ 3	█ 3	---
Potassium	ppm	█ 2	█ 5	█ 7	---

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 condition of the oil is acceptable for the time in service.

WEAR METALS

PQ		█ 10	█ 16	█ 18	---
Iron	ppm	█ 31	█ 75	█ 66	---
Copper	ppm	█ 16	█ 25	█ 26	---
Lead	ppm	<1	0	0	---
Tin	ppm	0	0	0	---
Aluminum	ppm	2	2	5	---
Chromium	ppm	█ <1	█ <1	█ <1	---
Molybdenum	ppm	█ <1	█ 0	█ <1	---
Nickel	ppm	█ 1	█ 2	█ 2	---
Titanium	ppm	<1	<1	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	█ <1	█ 2	█ 4	---
Vanadium	ppm	0	<1	0	---

ADDITIVES

Calcium	ppm	█ 4	█ 0	█ 26	---
Magnesium	ppm	█ 11	79	█ 912	---
Zinc	ppm	█ <1	█ 0	█ 0	---
Phosphorus	ppm	█ 1378	█ 1291	█ 1638	---
Barium	ppm	█ 9	█ 0	█ 0	---
Boron	ppm	█ 337	█ 392	█ 566	---

Depot: VP154394
Unique No: 10710204
Signed: Sean Felton
Report Date: 25 Oct 2023

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GRAPHS

