

OIL ANALYSIS REPORT



ALASKA LUXURY TOURS VOLVO PENTA A1204658 - PORT DIESEL ENGINE

Sample No: VPA036461
Oil Type: 15W40 CK-4

SAMPLE INFORMATION

Sample Number	VPA036461	VPA036730	---	---
Sample Date	02 Jul 2024	29 May 2024	---	---
Machine Hours	445	199	---	---
Oil Hours	246	199	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	14.0	13.9	---	---
Base Number (BN)	mg KOH/g	10.1	9.9	---	---
Oxidation (PA)	%	56	58	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.5	0.2	---	---
Nitration (PA)	%	54	49	---	---
Sulfation (PA)	%	53	52	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	9	24	---	---
Sodium	ppm	2	5	---	---
Potassium	ppm	<1	3	---	---

Diagnosis

No corrective action is recommended at this time. 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.

WEAR METALS

Iron	ppm	24	25	---	---
Copper	ppm	9	18	---	---
Lead	ppm	2	3	---	---
Tin	ppm	1	4	---	---
Aluminum	ppm	3	8	---	---
Chromium	ppm	2	3	---	---
Molybdenum	ppm	63	63	---	---
Nickel	ppm	2	4	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	0	---	---

ADDITIVES

Calcium	ppm	1263	1245	---	---
Magnesium	ppm	1069	961	---	---
Zinc	ppm	1421	1264	---	---
Phosphorus	ppm	1185	998	---	---
Barium	ppm	0	0	---	---
Boron	ppm	2	10	---	---

Depot: VP154394
Unique No: 11114466
Signed: Sean Felton
Report Date: 10 Jul 2024

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GRAPHS

