

OIL ANALYSIS REPORT

VOLVO PENTA

SILVER SEAS ONAN 201205 - GENSET

Sample No: VPA058330

Oil Type: {unknown}

SAMPLE INFORMATION

Sample Number	VPA058330	VPA019789	---	---
Sample Date	14 Mar 2024	04 Jun 2020	---	---
Machine Hours	314	195	---	---
Oil Hours	314	195	---	---
Oil Changed	Not Changd	N/A	---	---
Sample Status	NORMAL	NORMAL	---	---

Helmuts Marine Service

619 Canal Street
SAN RAFAEL, CA
US 94901-3545
Contact: NADINE URUIOLI
SERVICE@HELMUTSMARINE.COM

T: x:

F: x:

OIL CONDITION

Visc @ 100°C	cSt	█ 13.8	█ 13.62	---	---
Base Number (BN)	mg KOH/g	8.6	---	---	---
Oxidation (PA)	%	48	54	---	---

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.

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.1	█ 0	---	---
Nitration (PA)	%	49	55	---	---
Sulfation (PA)	%	48	52	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 6	█ 9	---	---
Sodium	ppm	█ 3	█ 4	---	---
Potassium	ppm	█ 3	█ 0	---	---

WEAR METALS

Iron	ppm	█ 2	█ 4	---	---
Copper	ppm	█ 1	█ 2	---	---
Lead	ppm	█ <1	█ 0	---	---
Tin	ppm	█ <1	█ 0	---	---
Aluminum	ppm	█ 2	█ 1	---	---
Chromium	ppm	█ <1	█ <1	---	---
Molybdenum	ppm	7	6	---	---
Nickel	ppm	█ <1	█ 0	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	█ 0	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	<1	0	---	---

ADDITIVES

Calcium	ppm	1247	1152	---	---
Magnesium	ppm	714	546	---	---
Zinc	ppm	816	677	---	---
Phosphorus	ppm	704	578	---	---
Barium	ppm	0	1	---	---
Boron	ppm	83	73	---	---

Depot: VP152741

Unique No: 10937593

Signed: Doug Bogart

Report Date: 21 Mar 2024

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GRAPHS

