

OIL ANALYSIS REPORT

**VOLVO
PENTA**

SIDEBAR H2O VOLVO PENTA 3940021851 (S/N 31940021851) - PORT IPS

Sample No: VPA025193
Oil Type: GEAR OIL SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA025193	VPA028385	VPA027150	---
Sample Date	20 Feb 2024	08 Mar 2022	05 May 2020	---
Machine Hours	643	516	321	---
Oil Hours	0	0	0	---
Oil Changed	N/A	Not Changd	N/A	---
Sample Status	ABNORMAL	ATTENTION	NORMAL	---

MARINE DIESEL SERVICES INC

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OIL CONDITION

Visc @ 40°C	cSt	105	104	105	---
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CONTAMINATION

Water	%	0.541	NEG	NEG	---
Silicon	ppm	16	14	14	---
Sodium	ppm	47	28	4	---
Potassium	ppm	2	2	2	---

WEAR METALS

PQ		17	27	22	---
Iron	ppm	146	260	44	---
Copper	ppm	19	25	5	---
Lead	ppm	<1	1	0	---
Tin	ppm	<1	0	0	---
Aluminum	ppm	3	5	<1	---
Chromium	ppm	<1	2	<1	---
Molybdenum	ppm	0	<1	0	---
Nickel	ppm	2	3	<1	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	<1	0	---
Manganese	ppm	5	7	1	---
Vanadium	ppm	0	0	0	---

ADDITIVES

Calcium	ppm	36	43	3	---
Magnesium	ppm	12	14	16	---
Zinc	ppm	44	31	4	---
Phosphorus	ppm	1325	1400	1239	---
Barium	ppm	0	0	0	---
Boron	ppm	243	267	264	---

Diagnosis

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.

Depot: VP288530
Unique No: 10903705
Signed: Doug Bogart
Report Date: 01 Mar 2024

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GRAPHS

