

OIL ANALYSIS REPORT

VOLVO PENTA

DAVE BREEN 505825 VOLVO PENTA 3940022028 - STARBOARD IPS

Sample No: VPA048049

Oil Type: GEAR OIL SAE 75W90

SAMPLE INFORMATION

Sample Number	VPA048049	VPA042392	VPA035453	VPA032341
Sample Date	19 Dec 2023	08 Feb 2023	06 Jan 2022	01 Mar 2021
Machine Hours	278	224	193	156
Oil Hours	54	31	50	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

Jefferson Beach Yacht Sales Inc
24400 Jefferson Ave.
SAINT CLAIR SHORES, MI
US 48080
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OIL CONDITION

Visc @ 40°C	cSt	108	110	106	103

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	7	4	8	6
Sodium	ppm	<1	<1	0	1
Potassium	ppm	0	<1	0	<1

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		16	11	21	17
Iron	ppm	33	23	26	44
Copper	ppm	3	3	4	6
Lead	ppm	0	1	0	<1
Tin	ppm	0	0	0	<1
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	0	<1	<1	<1
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	1	<1	<1	1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	8	7	15	7
Magnesium	ppm	1	2	8	26
Zinc	ppm	1	7	13	<1
Phosphorus	ppm	1537	1368	1324	1424
Barium	ppm	0	0	0	0
Boron	ppm	314	328	292	332

Depot: VP297371
Unique No: 10805834
Signed: Sean Felton
Report Date: 28 Dec 2023

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PENTA**

GRAPHS

