

# OIL ANALYSIS REPORT



**RICHARD LEWIS 505843 VOLVO PENTA 3195000602 - STARBOARD IPS**

**Sample No:** VPA056199

**Oil Type:** VOLVO PREMIUM GEAR OIL 80W-90 GL-5

## SAMPLE INFORMATION

Sample Number	<b>VPA056199</b>	VPA037092	VPA031696	VPA023514
Sample Date	<b>27 Mar 2024</b>	14 Feb 2022	30 Sep 2020	17 Mar 2020
Machine Hours	<b>1326</b>	1250	1250	1150
Oil Hours	<b>0</b>	75	122	70
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**Jefferson Beach Yacht Sales Inc**  
 24400 Jefferson Ave.  
 SAINT CLAIR SHORES, MI  
 US 48080  
 Contact: DENNIS BUTT  
 dbutt@jbys.com  
 T: (866)490-5297  
 F:

## OIL CONDITION

Visc @ 40°C	cSt	<b>109</b>	107	105	104
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## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	0.134
Silicon	ppm	<b>2</b>	<1	1	1
Sodium	ppm	<b>&lt;1</b>	3	1	<1
Potassium	ppm	<b>2</b>	0	0	0

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.

## WEAR METALS

PQ		<b>18</b>	18	18	20
Iron	ppm	<b>10</b>	14	10	12
Copper	ppm	<b>2</b>	2	1	1
Lead	ppm	<b>&lt;1</b>	0	0	<1
Tin	ppm	<b>1</b>	0	0	<1
Aluminum	ppm	<b>2</b>	<1	<1	0
Chromium	ppm	<b>&lt;1</b>	0	<1	<1
Molybdenum	ppm	<b>1</b>	0	0	<1
Nickel	ppm	<b>&lt;1</b>	0	<1	<1
Titanium	ppm	<b>&lt;1</b>	0	<1	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	<1	0

Diagnosis

## ADDITIVES

Calcium	ppm	<b>12</b>	10	10	7
Magnesium	ppm	<b>3</b>	<1	0	<1
Zinc	ppm	<b>2</b>	<1	5	4
Phosphorus	ppm	<b>1406</b>	1444	1222	1338
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>327</b>	366	292	280

**Depot:** VP297371  
**Unique No:** 10954742  
**Signed:** Jonathan Hester  
**Report Date:** 04 Apr 2024

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**VOLVO  
PENTA**

## GRAPHS

