

# OIL ANALYSIS REPORT



**RIO 540259 VOLVO PENTA 3950002766 - STARBOARD IPS**

**Sample No:** VPA051036  
**Oil Type:** GEAR OIL SAE 75W90

## SAMPLE INFORMATION

Sample Number	<b>VPA051036</b>	VPA040127	VPA035422	---
Sample Date	<b>05 May 2024</b>	19 Oct 2021	13 Oct 2021	---
Machine Hours	<b>1210</b>	1100	1092	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Not Changd</b>	N/A	N/A	---
Sample Status	<b>NORMAL</b>	NORMAL	ATTENTION	---

**Marine International Diesels Inc.**  
 3600 HACIENDA BLVD UNIT G  
 DAVIE, FL  
 US 33314  
 Contact: ASHANTI BURKE  
 aburke@midiflorida.com  
 T: (954)761-1086  
 F: (954)761-1186

## OIL CONDITION

Visc @ 40°C	cSt	<b>107</b>	109.9	100.6	---
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## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Silicon	ppm	<b>2</b>	2	5	---
Sodium	ppm	<b>1</b>	1	24	---
Potassium	ppm	<b>1</b>	5	0	---

## 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		<b>19</b>	19	27	---
Iron	ppm	<b>27</b>	8	209	---
Copper	ppm	<b>4</b>	1	34	---
Lead	ppm	<b>0</b>	0	3	---
Tin	ppm	<b>&lt;1</b>	0	0	---
Aluminum	ppm	<b>2</b>	<1	10	---
Chromium	ppm	<b>&lt;1</b>	<1	2	---
Molybdenum	ppm	<b>0</b>	<1	0	---
Nickel	ppm	<b>0</b>	0	3	---
Titanium	ppm	<b>&lt;1</b>	0	0	---
Silver	ppm	<b>0</b>	<1	0	---
Manganese	ppm	<b>&lt;1</b>	<1	9	---
Vanadium	ppm	<b>&lt;1</b>	0	0	---

## ADDITIVES

Calcium	ppm	<b>7</b>	3	9	---
Magnesium	ppm	<b>2</b>	<1	17	---
Zinc	ppm	<b>7</b>	4	193	---
Phosphorus	ppm	<b>1575</b>	1284	1206	---
Barium	ppm	<b>0</b>	0	<1	---
Boron	ppm	<b>385</b>	288	210	---

**Depot:** VP694356  
**Unique No:** 11021900  
**Signed:** Sean Felton  
**Report Date:** 14 May 2024

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**VOLVO  
PENTA**

## GRAPHS

