

# OIL ANALYSIS REPORT



**MEYER 3950004327 - STARBOARD IPS**

**Sample No:** VPA053655

**Oil Type:** GEAR OIL SAE 75W90

## SAMPLE INFORMATION

Sample Number	<b>VPA053655</b>	VPA036323	VPA051972	VPA046628
Sample Date	<b>09 May 2024</b>	13 Feb 2024	13 Sep 2023	27 Jun 2023
Machine Hours	<b>9798</b>	9242	8724	8250
Oil Hours	<b>537</b>	500	500	584
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

## VIRGINIA PILOT ASSOCIATION

3329 SHORE DR  
 VIRGINIA BEACH, VA  
 US 23451  
 Contact: RYAN BRYANT  
 bryant\_j@vapilotassn.com  
 T: (757)692-3439  
 F:

## OIL CONDITION

Visc @ 40°C	cSt	<b>104</b>	104	104	101
-------------	-----	------------	-----	-----	-----

## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Silicon	ppm	<b>3</b>	1	2	<1
Sodium	ppm	<b>5</b>	0	2	6
Potassium	ppm	<b>0</b>	1	<1	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>15</b>	11	9	12
Iron	ppm	<b>17</b>	21	23	30
Copper	ppm	<b>5</b>	4	5	6
Lead	ppm	<b>0</b>	0	<1	0
Tin	ppm	<b>&lt;1</b>	0	0	<1
Aluminum	ppm	<b>&lt;1</b>	2	2	2
Chromium	ppm	<b>0</b>	<1	<1	<1
Molybdenum	ppm	<b>0</b>	0	<1	<1
Nickel	ppm	<b>0</b>	0	<1	<1
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>1</b>	0	<1	1
Vanadium	ppm	<b>0</b>	0	0	0

## ADDITIVES

Calcium	ppm	<b>&lt;1</b>	2	3	11
Magnesium	ppm	<b>0</b>	1	1	2
Zinc	ppm	<b>0</b>	1	5	0
Phosphorus	ppm	<b>1374</b>	1214	1323	1295
Barium	ppm	<b>0</b>	<1	0	0
Boron	ppm	<b>331</b>	345	318	298

**Depot:** VPVIRVIR  
**Unique No:** 11023543  
**Signed:** Don Baldrige  
**Report Date:** 15 May 2024

# OIL ANALYSIS REPORT

# VOLVO PENTA

## GRAPHS

