



# VOLVO PENTA

## OIL ANALYSIS REPORT

WEAR  
CONTAMINATION  
FLUID CONDITION

**ABNORMAL**

**NORMAL**

**NORMAL**

Area

**GREG STRZYNSKI [GARRET CASSIDY]**

Machine Id

**MERCURY 0M975483**

Component

**Port Transmission**

Fluid

**MERCURY HIGH PERFORMANCE SAE 90 (8 GAL)**

### RECOMMENDATION

Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VPA036352	---	---
Sample Date		Client Info		25 Jun 2024	---	---
Machine Age	hrs	Client Info		375	---	---
Oil Age	hrs	Client Info		0	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Changed	---	---
Filter Changed		Client Info		Changed	---	---
Sample Status				ABNORMAL	---	---

### WEAR

The copper level is abnormal. Clutch disc wear or oil cooler leaching indicated.

Iron	ppm	ASTM D5185m	>500	31	---	---
Chromium	ppm	ASTM D5185m	>7	<1	---	---
Nickel	ppm	ASTM D5185m	>5	<1	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m		<1	---	---
Aluminum	ppm	ASTM D5185m	>15	3	---	---
Lead	ppm	ASTM D5185m	>350	6	---	---
Copper	ppm	ASTM D5185m	>300	▲ 345	---	---
Tin	ppm	ASTM D5185m	>5	<1	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

### CONTAMINATION

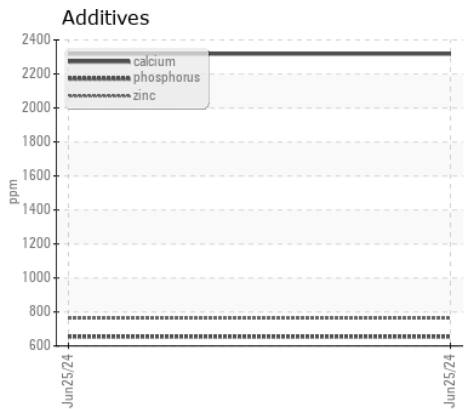
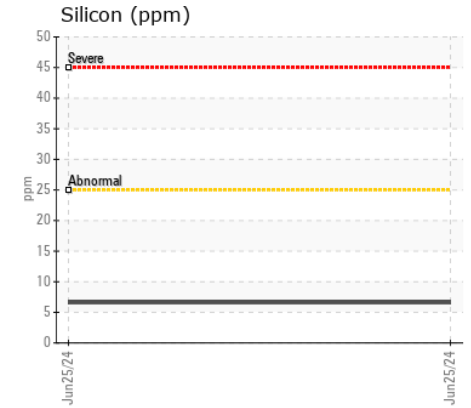
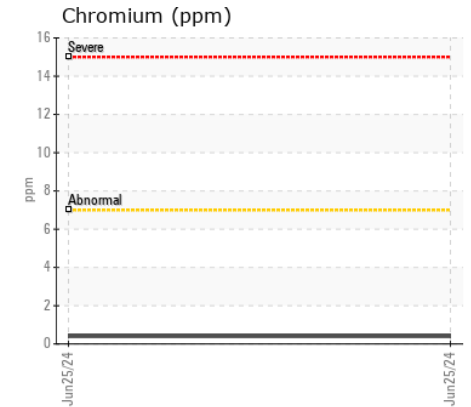
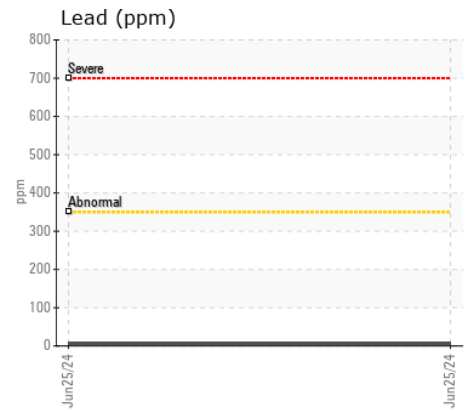
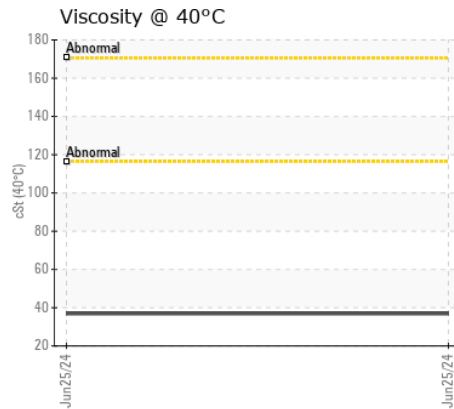
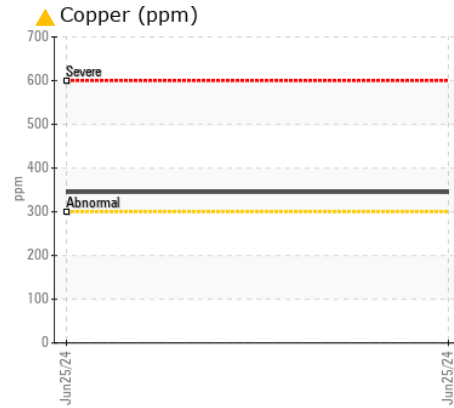
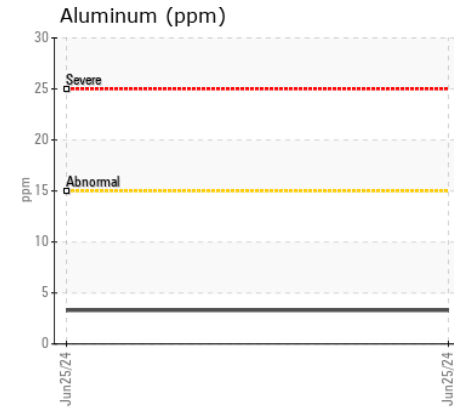
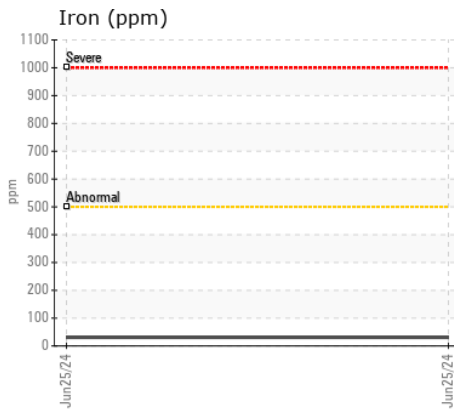
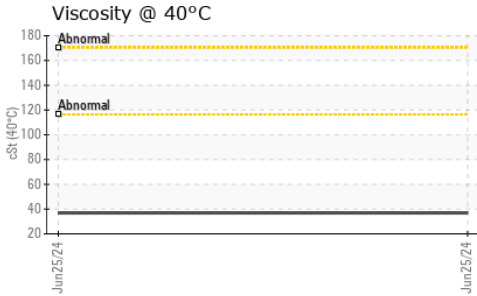
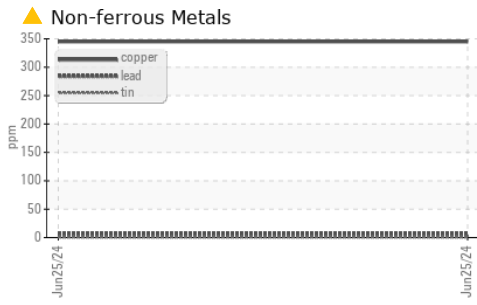
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>25	7	---	---
Potassium	ppm	ASTM D5185m	>20	5	---	---
Water		WC Method	>0.1	NEG	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.1	NEG	---	---

### FLUID CONDITION

The condition of the fluid is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		0	---	---
Boron	ppm	ASTM D5185m		208	---	---
Barium	ppm	ASTM D5185m		21	---	---
Molybdenum	ppm	ASTM D5185m		49	---	---
Manganese	ppm	ASTM D5185m		<1	---	---
Magnesium	ppm	ASTM D5185m		8	---	---
Calcium	ppm	ASTM D5185m		2318	---	---
Phosphorus	ppm	ASTM D5185m		655	---	---
Zinc	ppm	ASTM D5185m		762	---	---
Sulfur	ppm	ASTM D5185m		2640	---	---
Visc @ 40°C	cSt	ASTM D445		36.9	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VPA036352  
**Lab Number** : 06225398  
**Unique Number** : 11103595  
**Test Package** : MOB 1  
**Received** : 01 Jul 2024  
**Tested** : 02 Jul 2024  
**Diagnosed** : 03 Jul 2024 - Jonathan Hester

**Michigan Yachtcrafters Inc**  
 31785 S. River Road  
 HARRISON TOWNSHIP, MI  
 US 48045  
 Contact: Garrett Cassidy  
 michiganyachtservice@gmail.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T:  
F: