



VOLVO PENTA

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
GREG STRZYNSKI [GARRET CASSIDY]

Machine Id
MERCURY 0M975559

Component
Starboard 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		VPA036353	---	---
Sample Date		Client Info		25 Jun 2024	---	---
Machine Age	hrs	Client Info		374	---	---
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	52	---	---
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	7	---	---
Copper	ppm	ASTM D5185m	>300	▲ 350	---	---
Tin	ppm	ASTM D5185m	>5	<1	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

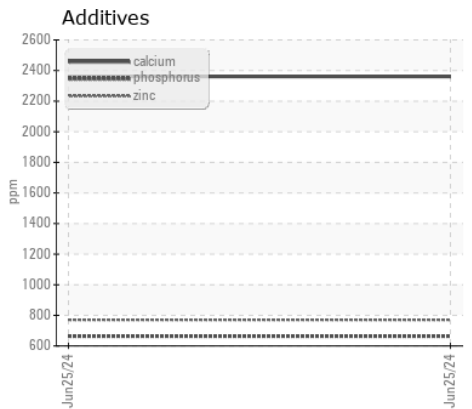
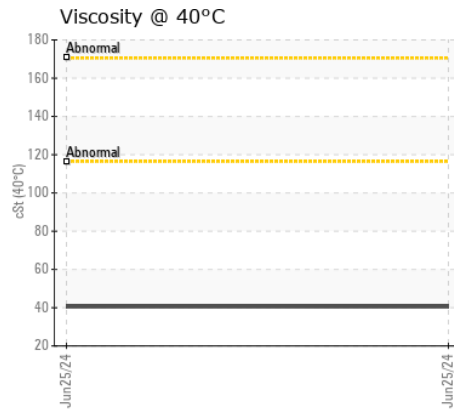
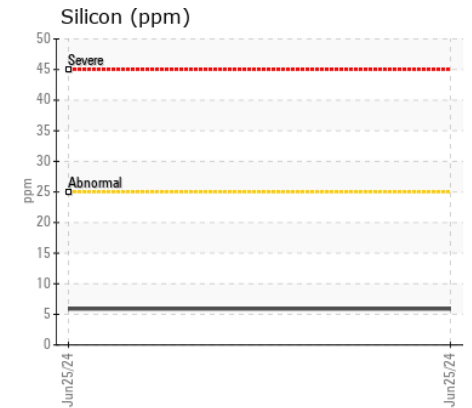
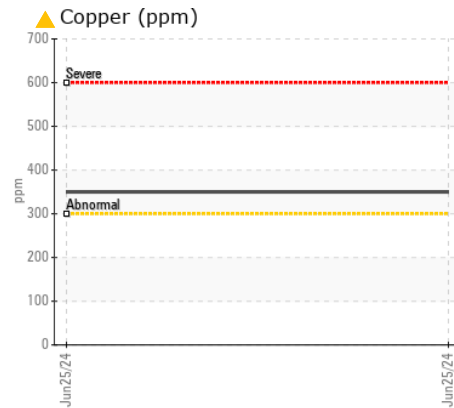
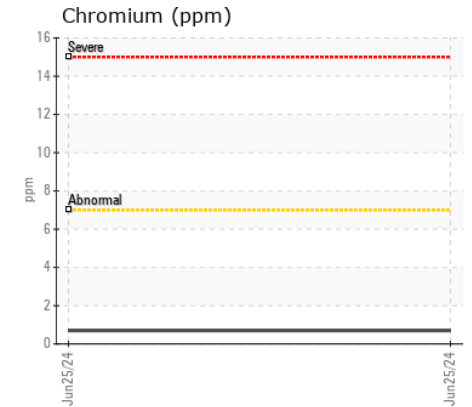
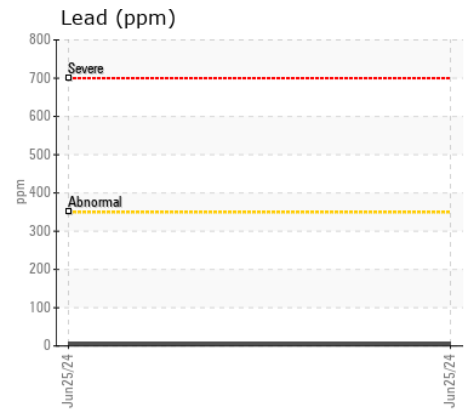
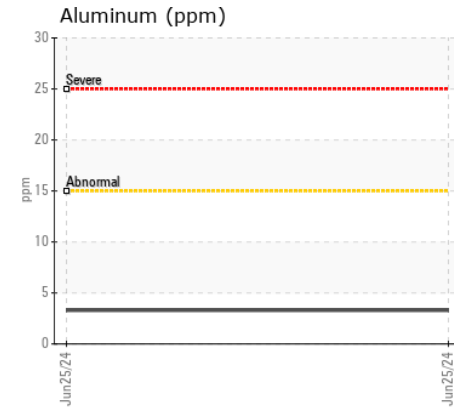
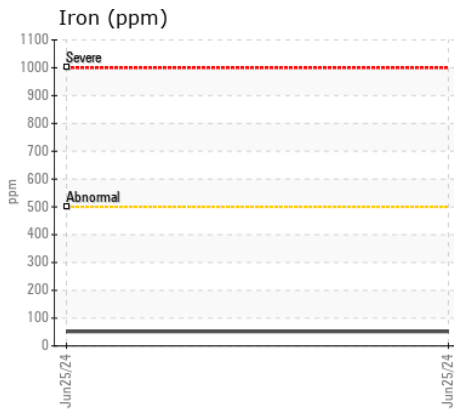
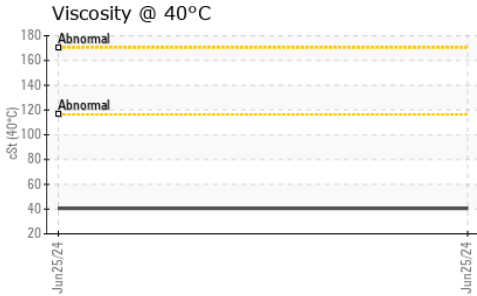
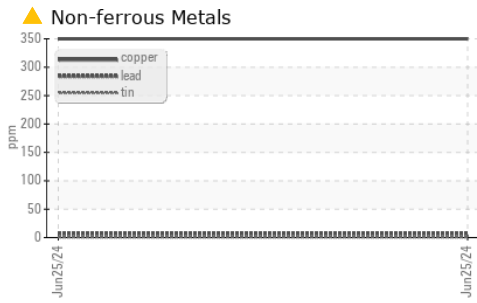
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>25	6	---	---
Potassium	ppm	ASTM D5185m	>20	5	---	---
Water		WC Method	>0.1	NEG	---	---
Silt	scalar	*Visual	NONE	LIGHT	---	---
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		209	---	---
Barium	ppm	ASTM D5185m		28	---	---
Molybdenum	ppm	ASTM D5185m		50	---	---
Manganese	ppm	ASTM D5185m		<1	---	---
Magnesium	ppm	ASTM D5185m		8	---	---
Calcium	ppm	ASTM D5185m		2361	---	---
Phosphorus	ppm	ASTM D5185m		664	---	---
Zinc	ppm	ASTM D5185m		770	---	---
Sulfur	ppm	ASTM D5185m		2263	---	---
Visc @ 40°C	cSt	ASTM D445		40.5	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : VPA036353

Lab Number : 06225399

Unique Number : 11103596

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

T:

F:

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)