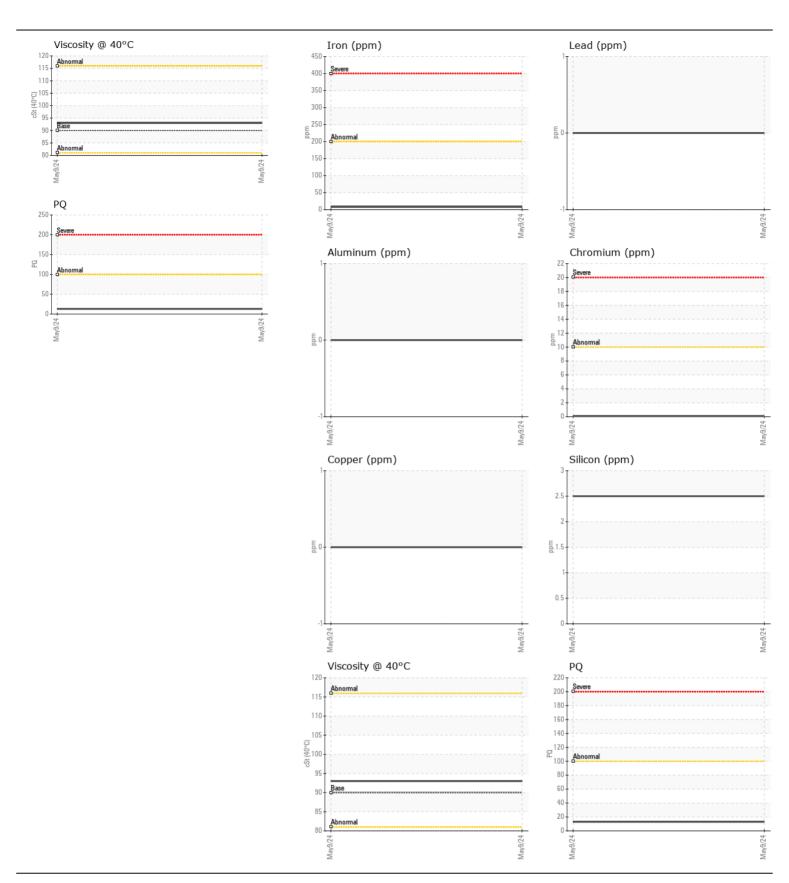
WEAR CONTAMINATION FLUID CONDITION **NORMAL NORMAL NORMAL**

YCO YACHT MANAGEMENT [205574]

VOLVO PENTA VOLVO PENTA IPS-10 (S/N UNKNOWN)

Starboard IPS

Test	UOM	Method	Limit/Abn	Current	History1	History2
	OOW		LITTIL/ NOT			
·	hrs					
•						
_	hrs			0		
Oil Changed		Client Info		Not Changd		
Filter Changed		Client Info		Not Changd		
Sample Status				NORMAL		
PO		ΔSTM D8184		12		
	nnm		>200			
			, , ,			
Silver				0		
Aluminum		ASTM D5185m		0		
Lead	ppm	ASTM D5185m		0		
Copper	ppm	ASTM D5185m		0		
Tin	ppm	ASTM D5185m		<1		
Vanadium	ppm	ASTM D5185m		0		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Silicon	nnm	ASTM D5185m		2		
			>20			
	la la					
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	>0.2	NEG		
Sodium	mag	ASTM D5185m		2		
Boron		ASTM D5185m		628		
Barium	ppm	ASTM D5185m		2		
Molybdenum	ppm	ASTM D5185m		<1		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		900		
Calcium	ppm	ASTM D5185m		23		
Phosphorus	ppm	ASTM D5185m		1686		
		ASTM D5185m		6		
Zinc	ppm	ASTIVI DOTOSITI		U		
	Sample Number Sample Date Machine Age Oil Age Filter Age Oil Changed Filter Changed Sample Status PQ Iron Chromium Nickel Titanium Silver Aluminum Lead Copper Tin Vanadium White Metal Yellow Metal Silicon Potassium Water Silt Debris Sand/Dirt Appearance Odor Emulsified Water Sodium Boron Barium Manganese Magnesium Calcium	Sample Number Sample Date Machine Age hrs Oil Age hrs Filter Age hrs Oil Changed Filter Changed Sample Status PQ Iron ppm Chromium ppm Nickel ppm Titanium ppm Silver ppm Aluminum ppm Lead ppm Copper ppm Tin ppm Vanadium ppm White Metal scalar Yellow Metal scalar Yellow Metal scalar Silt scalar Debris scalar Sand/Dirt scalar Appearance scalar Odor scalar Emulsified Water scalar Sodium ppm Boron ppm Manganese ppm Magnesium ppm Calcium ppm	Sample Number Sample Date Client Info Machine Age hrs Client Info Oil Age hrs Client Info Oil Age hrs Client Info Oil Changed Filter Age Oil Changed Filter Changed Filter Changed Formula ppm ASTM D5185m Chromium Ppm ASTM D5185m Nickel Ppm ASTM D5185m Aluminum Ppm ASTM D5185m ASTM D5185m Copper Ppm ASTM D5185m Vanadium Ppm ASTM D5185m Visual Scalar Visual Silicon Ppm ASTM D5185m Vater WC Method Silt Scalar Visual Sand/Dirt Scalar Appearance Scalar Visual Sand/Dirt Scalar Appearance Scalar Scalar Visual Sand/Dirt Scalar Appearance Scalar Scalar Appearance	Sample Number Sample Date Sample Date Client Info Machine Age hrs Client Info Oil Age hrs Client Info Filter Age hrs Client Info Oil Changed Client Info Filter Changed Sample Status PQ ASTM D8184 Iron ppm ASTM D5185m Silver ppm ASTM D5185m Aluminum ppm ASTM D5185m Lead ppm ASTM D5185m Copper ppm ASTM D5185m Vanadium ppm ASTM D5185m NONE Silicon ppm ASTM D5185m Vanadium ppm ASTM D5185m Potassium ppm ASTM D5185m Vanadium ppm ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Barium ppm ASTM D5185m ASTM D5185m Barium ppm ASTM D5185m ASTM D	Sample Number Client Info VPA0622013 Sample Date Client Info 09 May 2024 Machine Age hrs Client Info 0 Oil Age hrs Client Info 0 Filter Age hrs Client Info Not Changd Filter Changed Client Info Not Changd Sample Status NORMAL Not Changd PQ ASTM D8184 13 Iron ppm ASTM D8185m >200 8 Chromium ppm ASTM D8185m >10 <1	Sample Number Client Info VPA0622013







Laboratory Sample No.

: VPA0622013 Lab Number : 06177912 Unique Number : 11029238

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 13 May 2024 **Tested** : 14 May 2024

Diagnosed Test Package : MOB 1 (Additional Tests: PQ)

: 17 May 2024 - Jonathan Hester

Cogswell Marine & Motorsports, Inc

865 Stella Street CHULA VISTA, CA US 91911

Contact: Mitchell Cogswell Cogswellmarinemotorsports@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.

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