WEAR CONTAMINATION FLUID CONDITION

NORMAL ATTENTION NORMAL

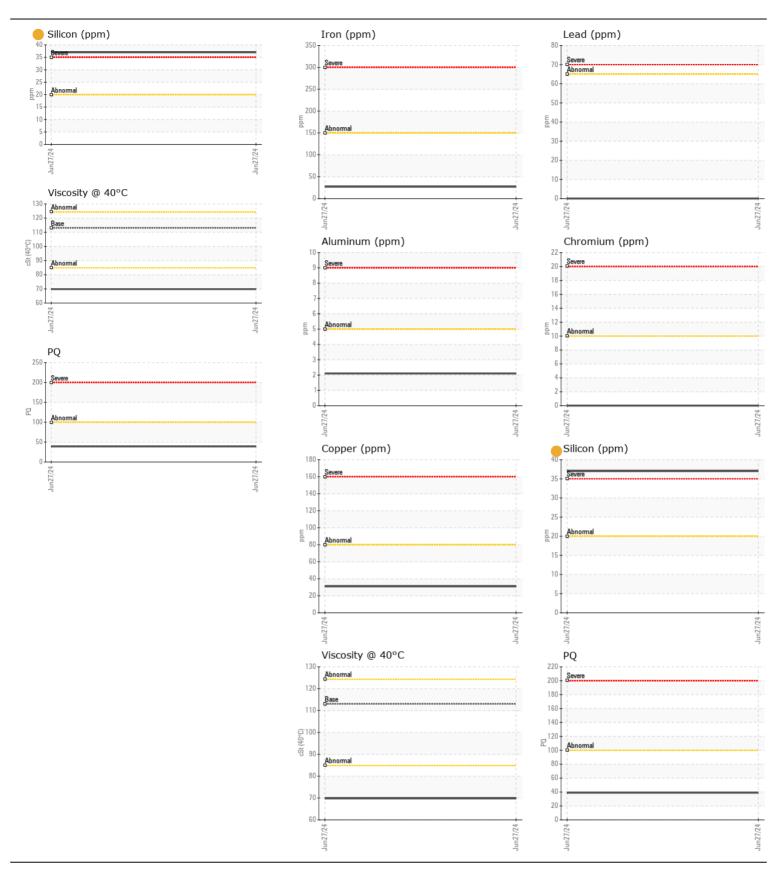
SUZANNE MARSTON 35 YACHT CHARTER [EVAN/503263]

VOLVO PENTA 51230090963 - STERNDRIVE

Center Gearbox

VOLVO III TRA DIESEL ENGINE OIL 15W40 VDS-3 (1 GAL)

VOLVO ULTRA DIESEL ENGINE OIL 15W40 VI	03-3 (1 GAL)	<u>'</u>					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		VPA062812		
	Sample Date		Client Info		27 Jun 2024		
	Machine Age	hrs	Client Info		1		
	Oil Age	hrs	Client Info		1		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		N/A		
	Sample Status				ATTENTION		
WEAD	DO.		AOTM D0404				
WEAR	PQ		ASTM D8184	4.50	39		
All component wear rates are normal.	Iron	ppm	ASTM D5185m		27		
	Chromium	ppm	ASTM D5185m		0		
	Nickel	ppm	ASTM D5185m	>10	0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		2		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		31		
	Tin	ppm	ASTM D5185m	>8	1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>20	3 7		
Elemental level of silicon (Si) above normal indicating ingress of seal material.	Potassium	ppm	ASTM D5185m	>20	0		
	Water		WC Method	>0.2	NEG		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	LIGHT		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
ELUID CONDITION	0 "						
FLUID CONDITION	Sodium	ppm	ASTM D5185m	0 =	3		
The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		16		
	Barium	ppm	ASTM D5185m		19		
	Molybdenum	ppm	ASTM D5185m		61		
	Manganese	ppm	ASTM D5185m		2		
	Magnesium	ppm	ASTM D5185m		1001		
	Calcium	ppm	ASTM D5185m	2057	1110		
	Phosphorus	ppm	ASTM D5185m		1191		
	Zinc	ppm	ASTM D5185m		1321		
	Sulfur	ppm	ASTM D5185m		4827		
Papart Id: \/P7040E1 [M/I ISC A D] 06997960 /Caparatad: 07/00/9094 21:20:40\ Payr. 1	Visc @ 40°C	cSt	ASTM D445		69.8		 VD70405:





Certificate L2367

Report Id: VP794951 [WUSCAR] 06227860 (Generated: 07/09/2024 21:30:44) Rev: 1

Laboratory Sample No.

Lab Number : 06227860

: VPA062812 Unique Number : 11111353

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

: 03 Jul 2024 Diagnosed Test Package: MOB 1 (Additional Tests: PQ)

: 07 Jul 2024 : 07 Jul 2024 - Don Baldridge

Endor Marine LLC - Coastal Marine - 152124 4300 11th Ave. NW

SEATTLE, WA US 98107

F: (206)784-8823

Contact: WILLOW YANARELLA service@coastalmarineengine.com T: (206)784-3703

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)