

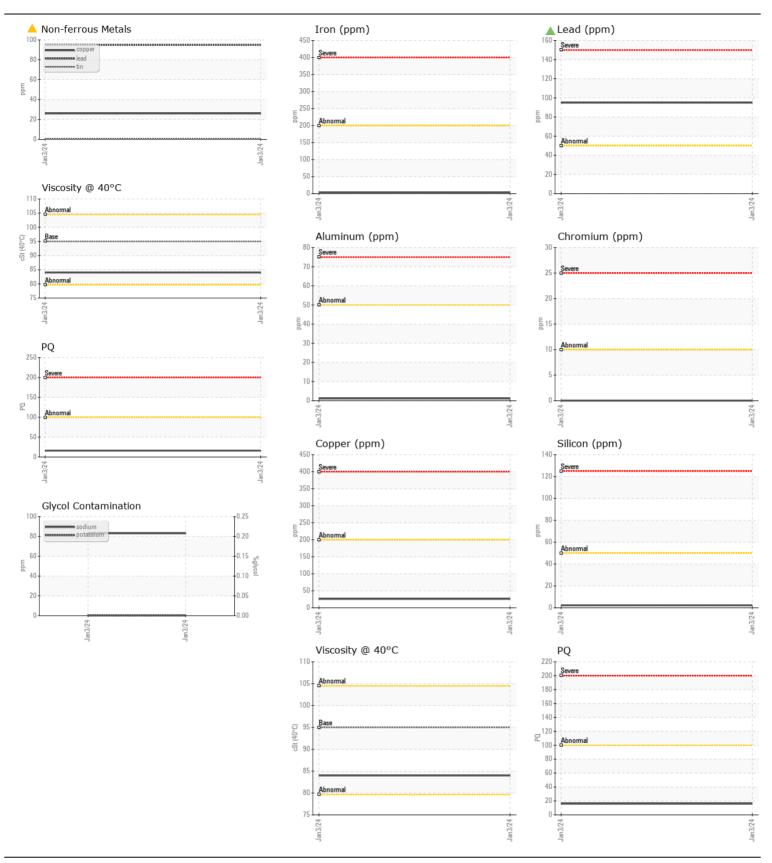
WEAR CONTAMINATION **FLUID CONDITION** **ATTENTION NORMAL NORMAL**

LAMPHER

ZF 20039516

Component Starboard Transmission

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		VPA045597		
	Sample Date		Client Info		03 Jan 2024		
	Machine Age	hrs	Client Info		0		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				ATTENTION		
WEAR	PQ		ASTM D8184		16		
The copper level is abnormal. All other component wear rates are normal.	Iron	ppm	ASTM D5185m	>200	3		
	Chromium	ppm	ASTM D5185m	>10	0		
	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>50	1		
	Lead	ppm	ASTM D5185m	>50	9 5		
	Copper	ppm	ASTM D5185m	>200	26		
	Tin	ppm	ASTM D5185m	>10	<1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	LIGHT		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION There is no indication of any contamination in the fluid.	Silicon	ppm	ASTM D5185m	>50	2		
	Potassium	ppm	ASTM D5185m		- <1		
	Water		WC Method		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	Sodium	ppm	ASTM D5185m		83		
The condition of the fluid is acceptable for the time in service.	Boron	ppm	ASTM D5185m		145		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		63		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		435		
	Calcium	ppm	ASTM D5185m		1135		
	Phosphorus	ppm	ASTM D5185m		694		
	Zinc	ppm	ASTM D5185m		762		
	Sulfur	ppm	ASTM D5185m		2917		
	Visc @ 40°C	cSt	ASTM D445	95.0	84.0		





Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: VPA045597 : 06055600

: 10821549

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 09 Jan 2024

: 10 Jan 2024 Diagnosed Diagnostician : Jonathan Hester

Test Package : MOB 1 (Additional Tests: Glycol, PQ) 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.

Aqua Yacht Harbor Marina

3832 Hwy. 25 North, 3832 Hwy. 25 North

IUKA, MS US 38852

Contact: DENNIS KANIZAI

dkanizai@shmarinas.com

T: F:

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