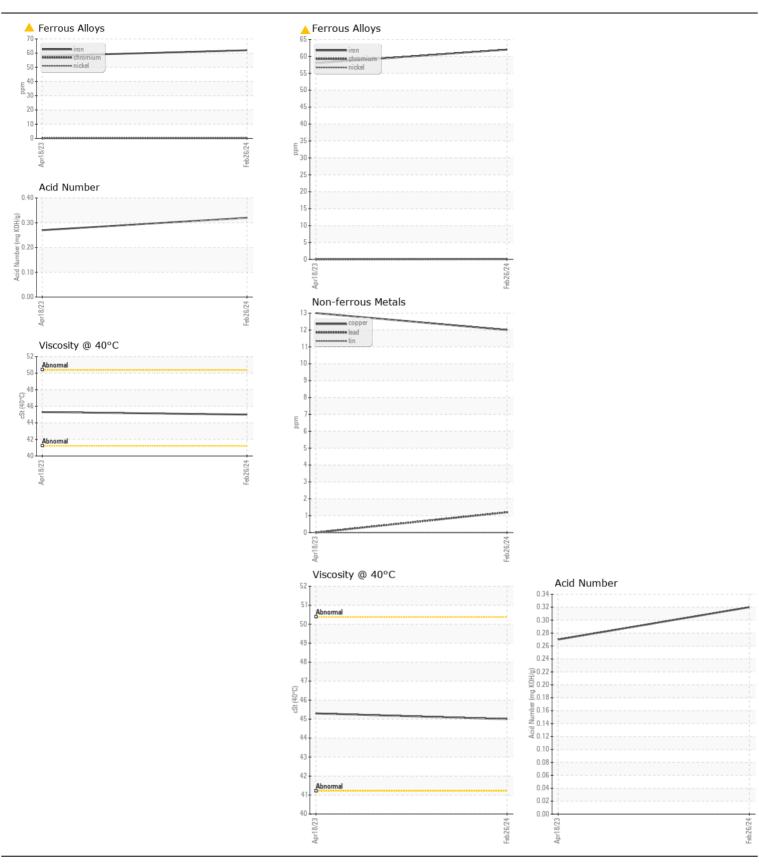


WEAR CONTAMINATION **FLUID CONDITION** **ABNORMAL ABNORMAL NORMAL**

EILEEN C - WHEELHOUSE LIFT

Component Hydraulic System

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.	Sample Number	OOW	Client Info	LITTIONOTT	MW0059073	MW0034965	
	Sample Date		Client Info		26 Feb 2024	18 Apr 2023	
	Machine Age	hrs	Client Info		0	0	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		N/A	N/A	
	Filter Changed		Client Info		N/A	N/A	
	Sample Status				ABNORMAL	ABNORMAL	
/EAR	Iron	ppm	ASTM D5185m	>20	6 2	<u> </u> 58	
	Chromium	ppm	ASTM D5185m		<1	0	
The iron level is abnormal.	Nickel	ppm	ASTM D5185m		0	0	
	Titanium	ppm	ASTM D5185m		0	<1	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m	>10	<1	1	
	Lead	ppm	ASTM D5185m	>10	1	0	
	Copper	ppm	ASTM D5185m	>75	12	13	
	Tin	ppm	ASTM D5185m	>10	0	0	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
ONTAMINATION	Silicon	ppm	ASTM D5185m	>20	3	3	
Moderate concentration of visible dirt/debris present in the oil.	Potassium	ppm	ASTM D5185m	>20	0	<1	
	Water		WC Method	>0.1	NEG	NEG	
	Particles >4µm		ASTM D7647	>5000		<u>▲</u> 173233	
	Particles >6µm		ASTM D7647	>1300		<u></u> 44389 ≜	
	Particles >14μm		ASTM D7647	>160		<u></u> 4 393	
	Particles >21µm		ASTM D7647	>40		19	
	Particles >38µm		ASTM D7647	>10		1	
	Particles >71µm		ASTM D7647			0	
	Oil Cleanliness		ISO 4406 (c)	>19/17/14		<u>\$\Delta\$ 25/24/16</u>	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	▲ MODER	LIGHT	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	
LUID CONDITION	Sodium	ppm	ASTM D5185m		0	3	
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		0	2	
	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		0	<1	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		7	7	
	Calcium	ppm	ASTM D5185m		156	175	
	Phosphorus	ppm	ASTM D5185m		268	311	
	Zinc	ppm	ASTM D5185m		267	293	
	Sulfur	ppm	ASTM D5185m		975	1360	
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.32	0.27	
	Visc @ 40°C	cSt	ASTM D445		45.0	45.3	







Certificate L2367

Laboratory Sample No.

: MW0059073 Lab Number : 06101564 Unique Number: 10899794 Test Package : MAR 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 27 Feb 2024 **Tested** : 29 Feb 2024

Diagnosed

: 29 Feb 2024 - Jonathan Hester

US 60439 Contact: RHETT DANIEL rdaniel@imtowing.com T: (630)280-4926

ILLINOIS MARINE TOWING

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)

PO BOX 391

LEMONT, IL

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