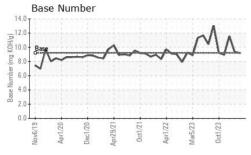
**WEAR CONTAMINATION FLUID CONDITION** 

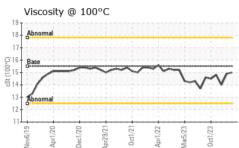
**NORMAL NORMAL NORMAL** 

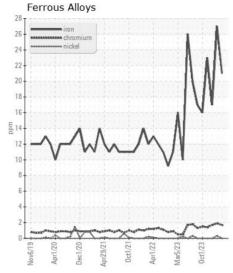
## **ERNA E HONEYCUTT** [ERNA E HONEYCUTT] 003 641346-3

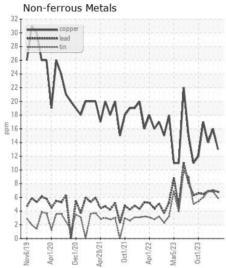
Starboard Main Engine

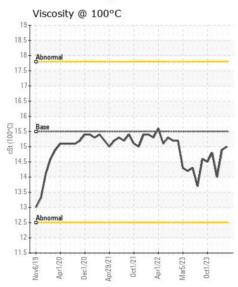
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		MW0068308	MW0063225	MW005256
	Sample Date		Client Info		02 Feb 2024	29 Dec 2023	01 Dec 2023
	Machine Age	hrs	Client Info		7516	6652	5982
	Oil Age	hrs	Client Info		7516	268	5982
	Filter Age	hrs	Client Info		0	0	345
	Oil Changed		Client Info		N/A	N/A	Not Change
	Filter Changed		Client Info		N/A	N/A	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>75	21	27	17
	Chromium	ppm	ASTM D5185m		2	2	2
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	<1	0
	Titanium	ppm	ASTM D5185m	>3	0	<1	0
	Silver	ppm	ASTM D5185m	>2	0	0	0
	Aluminum	ppm	ASTM D5185m	>15	2	2	2
	Lead	ppm	ASTM D5185m	>18	7	7	7
	Copper	ppm	ASTM D5185m	>80	13	16	14
	Tin	ppm	ASTM D5185m	>14	6	7	7
	Vanadium	ppm	ASTM D5185m		0	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Ciliaan		ACTM DE10E	00	4		
CONTAMINATION	Silicon Potassium	ppm	ASTM D5185m ASTM D5185m		4 0	6 2	7
There is no indication of any contamination in the oil.	Fuel	ppm	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	<i>&gt;</i> 0.1	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	<b>\3</b>	0.7	0.8	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	8.6	8.4	8.1
	Sulfation	Abs/.1mm	*ASTM D7415		17.2	17.2	16.7
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	<b>Emulsified Water</b>	scalar	*Visual	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>75	0	0	2
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		30	43	37
	Barium	ppm	ASTM D5185m		0	2	0
	Molybdenum	ppm	ASTM D5185m		43	45	44
	Manganese	ppm	ASTM D5185m		2	2	<1
	Magnesium	ppm	ASTM D5185m		22	10	19
	Calcium	ppm	ASTM D5185m		3334	3422	3327
	Phosphorus	ppm	ASTM D5185m	10	8	19	9
	Zinc	ppm	ASTM D5185m	10	9	0	11
	Sulfur	ppm	ASTM D5185m		2251	2545	2211
	Ovidation	Aho/1mm	*ACTM D7444	- OF	0.0	0.0	0 =
	Oxidation Base Number (BN)	Abs/.1mm	*ASTM D7414		9.3 9.20	9.0 9.36	9.5 11.58

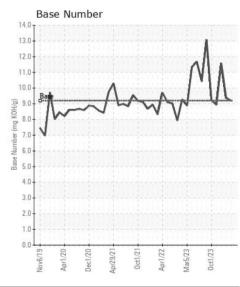














Certificate L2367

Laboratory Sample No.

: MW0068308 Lab Number : 06101139 Unique Number: 10899369 Test Package : MAR 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 26 Feb 2024 **Tested** : 28 Feb 2024

Diagnosed : 28 Feb 2024 - Wes Davis **INGRAM BARGE** 900 S 3RD ST PADUCAH, KY

F: (615)695-3697

US 42003 Contact: JEFF BISHOP

jeff.bishop@ingrambarge.com T:

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)