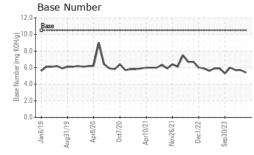
WEAR CONTAMINATION **FLUID CONDITION**

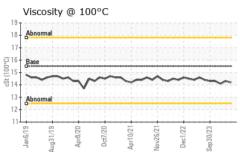
NORMAL NORMAL NORMAL

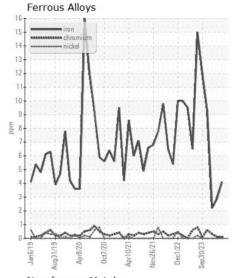
Machine Id SDA

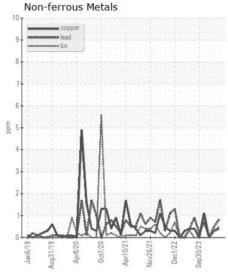
Component Starboard Genset

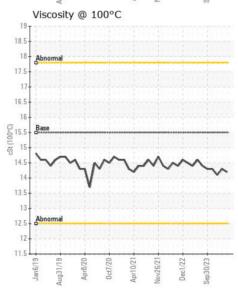
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		MW0060928	MW0060933	MW006092
	Sample Date		Client Info		14 Feb 2024	12 Jan 2024	25 Dec 202
	Machine Age	hrs	Client Info		14542	14255	14016
	Oil Age	hrs	Client Info		322	250	268
	Filter Age	hrs	Client Info		322	250	268
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>50	4	3	2
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>4	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>2	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>5	0	0	0
	Aluminum	ppm	ASTM D5185m	>12	2	2	2
	Lead	ppm	ASTM D5185m	>17	<1	<1	0
	Copper	ppm	ASTM D5185m	>70	<1	<1	0
	Tin	ppm	ASTM D5185m	>15	<1	<1	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	2	2	2
SONTAIMINATION	Potassium	ppm	ASTM D5185m		- <1	- <1	<1
There is no indication of any contamination in the oil.	Fuel	pp	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.1	0.2	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	8.3	7.5	7.6
	Sulfation	Abs/.1mm	*ASTM D7415		16.1	15.2	15.1
	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
	Emulsified Water		*Visual	>0.1	NEG	NEG	NEG
THUR CONDITION	0 "		AOTA DE LOS				
FLUID CONDITION	Sodium Boron	ppm	ASTM D5185m ASTM D5185m		<1 39	<1 37	<1
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium		ASTM D5185m		0	0	2
	Molybdenum	ppm	ASTM D5185m		41	40	44
	Manganese	ppm	ASTM D5185m		<1	<1	0
	Magnesium		ASTM D5185m		10	10	6
	Calcium	ppm	ASTM D5185m		3164	2994	2994
	Phosphorus	ppm	ASTM D5185m		0	0	38
	Zinc	ppm	ASTM D5185m		0	0	0
	Sulfur	ppm	ASTM D5185m		2008	1904	1876
	Oxidation	ppm Abs/.1mm	*ASTM D7414	>25	11.9	9.7	10.1
					5.4	5.7	5.7
	Base Number (BN)						
	Visc @ 100°C	cSt	ASTM D445	13.5	14.2	14.3	14.1

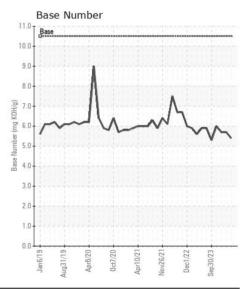














Certificate L2367

Laboratory Sample No.

: MW0060928 Lab Number : 06105812 Unique Number : 10909309 Test Package : MAR 2

To discuss this sample report, contact Customer Service at 1-800-237-1369.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 01 Mar 2024 **Tested** : 02 Mar 2024

Diagnosed : 02 Mar 2024 - Wes Davis

AMERICAN RIVER TRANSPORTATION CO.

Contact/Location: MATTHEW FRENCH - AMESAI

P.O. BOX 2889 ST. LOUIS, MO

F: (314)481-5278

US 63111 Contact: MATTHEW FRENCH

matthew.french@adm.com

* - 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) T: