WEAR CONTAMINATION **FLUID CONDITION**

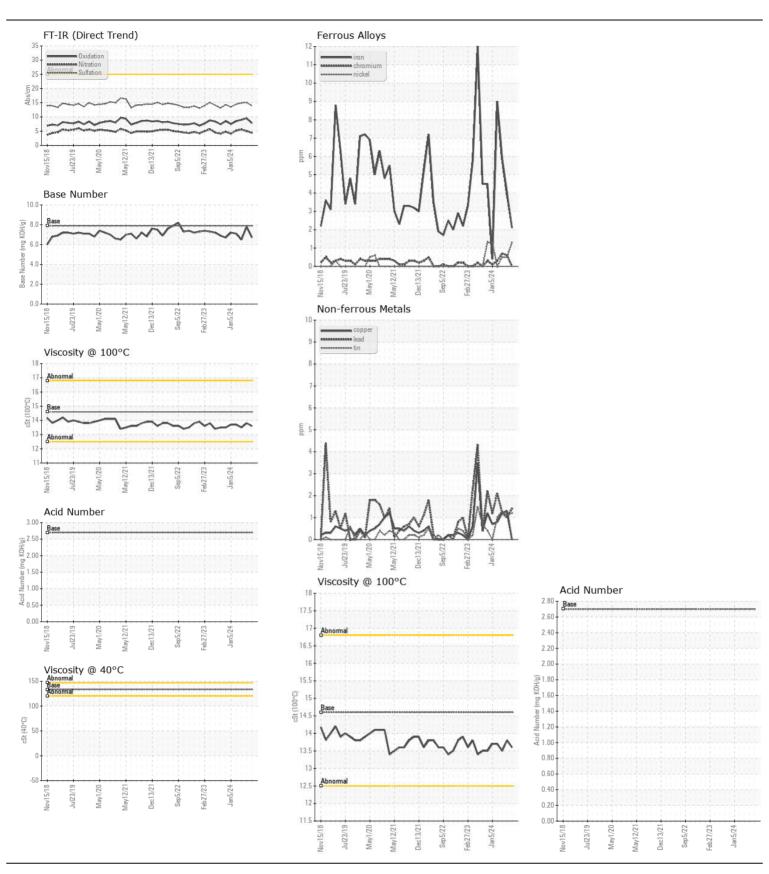
NORMAL NORMAL NORMAL

Machine Id

PRAIRIE LAND

Starboard Main Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History	History2
RECOMMENDATION	Sample Number	UOIVI	Client Info	LIIIII/ADII	MWM696819	History1 MWM696867	MWM69686
Resample at the next service interval to monitor.	Sample Date		Client Info		18 Jun 2024	01 May 2024	27 Mar 202
	Machine Age	hrs	Client Info		0	0 1 May 2024	0
	Oil Age	hrs	Client Info		800	800	800
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed	1113	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status		Oliciti IIIIo		NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>75	2	4	6
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>8	0	<1	<1
	Nickel	ppm	ASTM D5185m	>2	1	<1	<1
	Titanium	ppm	ASTM D5185m	>3	0	<1	<1
	Silver	ppm	ASTM D5185m	>2	<1	<1	<1
	Aluminum	ppm	ASTM D5185m	>15	1	2	2
	Lead	ppm	ASTM D5185m	>18	1	1	1
	Copper	ppm	ASTM D5185m	>80	0	1	1
	Tin	ppm	ASTM D5185m	>14	1	1	1
	Vanadium	ppm	ASTM D5185m		<1	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTABINATION	Ciliana		ACTM DE10E	00	•		
CONTAMINATION	Silicon	ppm	ASTM D5185m		2 5	3	3
There is no indication of any contamination in the oil.	Potassium Fuel	ppm	ASTM D5185m				
			WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.1	NEG	NEG	NEG
	Glycol	0/	WC Method		NEG	NEG	NEG
	Soot %	% Ala a /ave	*ASTM D7844	00	0.2	0.2	0.1
	Nitration	Abs/dm	*ASTM D7624		4.4	5.0	5.6
	Sulfation	Abs/.1mm	*ASTM D7415		13.9 NONE	15.1	14.9
	Silt Debris	scalar	*Visual	NONE	NONE NONE	NONE	NONE
		scalar	*Visual	NONE		NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance Odor	scalar	*Visual	NORML	NORML	NORML NORML	NORM
		scalar	*Visual	NORML	NORML		
	Emulsified Water	Scalar	visuai	>0.1	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>75	2	0	0
	Boron	ppm	ASTM D5185m	1.0	22	23	1
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m	1.0	0	0	0
	Molybdenum	ppm	ASTM D5185m	1.0	3	6	5
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	15	961	856	916
	Calcium	ppm	ASTM D5185m		1216	1180	1104
	Phosphorus	ppm	ASTM D5185m		1270	1163	1211
	Zinc	ppm	ASTM D5185m		1518	1305	1344
	Sulfur	ppm	ASTM D5185m		4496	3549	3583
	Oxidation	Abs/.1mm	*ASTM D7414		7.8	9.5	9.0
	Base Number (BN)	mg KOH/g	ASTM D2896	7.9	6.7	7.8	6.5
	Visc @ 100°C	cSt	ASTM D445		13.6	13.8	13.5







Certificate L2367

Sample No. Lab Number

Laboratory

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : MWM696819

: 06225441

Received **Tested** Unique Number: 11103638 Diagnosed

: 03 Jul 2024 Test Package: MAR 2 (Additional Tests: KV40, TAN Man)

: 03 Jul 2024 - Don Baldridge

: 01 Jul 2024

AMERICAN RIVER TRANS. CO. PEORIA 534 WESLEY RD CREVECOEUR, IL

US 61610

T: (309)360-3931 F: (309)694-7030

Contact: STEVE BUCCO

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)