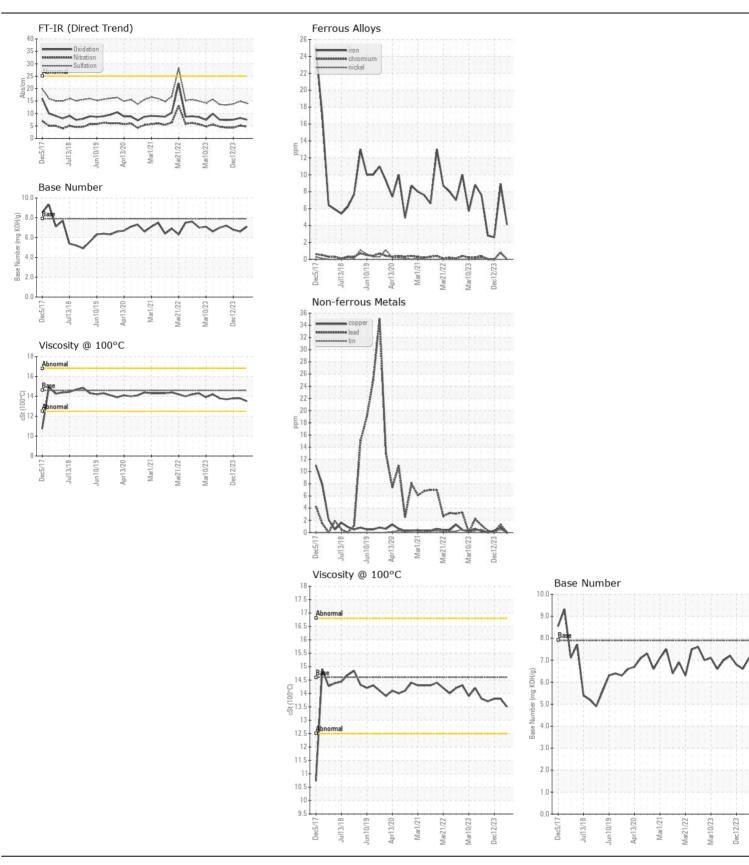
**WEAR** CONTAMINATION **FLUID CONDITION**  **NORMAL NORMAL NORMAL** 

Machine Id

## **RIVER SPIRIT**

**Port Genset** 

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		MW0066900	MW0036021	MW0036019
	Sample Date		Client Info		09 Apr 2024	08 Feb 2024	12 Dec 202
	Machine Age	hrs	Client Info		23872	23133	22792
	Oil Age	hrs	Client Info		759	841	362
	Filter Age	hrs	Client Info		759	841	362
	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	9	3
	Chromium	ppm	ASTM D5185m		0	<1	0
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	<1	0
	Titanium	ppm	ASTM D5185m	_	0	<1	0
	Silver	ppm	ASTM D5185m	>5	0	0	0
	Aluminum	ppm	ASTM D5185m		0	2	<1
	Lead	ppm	ASTM D5185m		0	1	0
	Copper	ppm	ASTM D5185m	>70	0	<1	<1
	Tin	ppm	ASTM D5185m		0	<1	0
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	<b>&gt;25</b>	2	4	2
	Potassium	ppm	ASTM D5185m		0	2	0
There is no indication of any contamination in the oil.	Fuel	ррпп	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	20.1	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	4.7	5.1	4.3
	Sulfation	Abs/.1mm	*ASTM D7415		14.1	14.9	13.8
	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		0	<1	0
LOID-CONDITION	Boron	ppm	ASTM D5185m	1.0	<1	<1	0
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	34	0
	Molybdenum	ppm	ASTM D5185m		0	2	0
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m		894	838	928
	Calcium	ppm	ASTM D5185m		1054	961	1003
	Phosphorus	ppm	ASTM D5185m		1106	913	1063
	Zinc	ppm	ASTM D5185m		1291	1185	1335
	Sulfur	ppm	ASTM D5185m		3408	2766	3009
	Oxidation	Abs/.1mm	*ASTM D7414		7.5	8.2	7.5
	Base Number (BN)		ASTM D2896		7.1	6.6	6.8
	( )	0 - 0					







Certificate L2367

Laboratory Sample No.

: MW0066900 Lab Number : 06195244 Unique Number : 11057367 Test Package : MAR 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 30 May 2024 **Tested** 

: 31 May 2024 Diagnosed : 31 May 2024 - Wes Davis

AMERICAN RIVER TRANSPORTATION 1495 EAST ILLINOIS RT 71 OTTAWA, IL

US 61350 Contact: Jackson Hayes

jackson.hayes@adm.com

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.

T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (815)434-5571