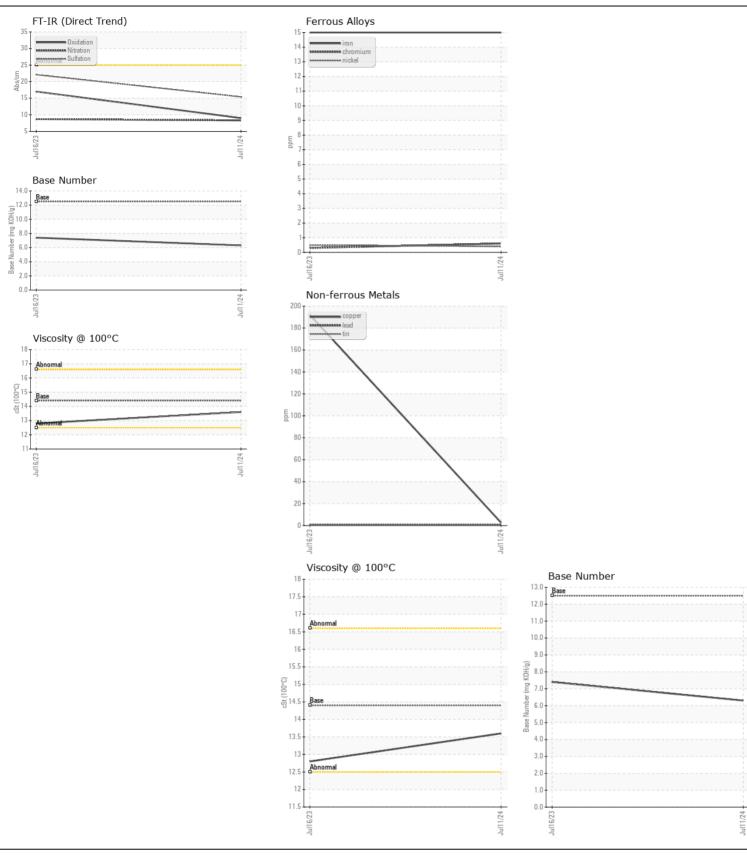
**WEAR** CONTAMINATION **FLUID CONDITION**  **NORMAL NORMAL NORMAL** 

Machine Id

**MIS** 

## Component Port Main Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History
Resample at the next service interval to monitor.	Sample Number		Client Info		MW0054566	MW0054616	
	Sample Date		Client Info		11 Jul 2024	16 Jul 2023	
	Machine Age	hrs	Client Info		26356	0	
	Oil Age	hrs	Client Info		970	0	
	Filter Age	hrs	Client Info		970	0	
	Oil Changed		Client Info		Changed	N/A	
	Filter Changed		Client Info		Changed	N/A	
	Sample Status				NORMAL	ABNORMAL	
VEAR	Iron	ppm	ASTM D5185m	>75	15	15	
	Chromium	ppm	ASTM D5185m	>8	<1	<1	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	<1	
	Titanium	ppm	ASTM D5185m		<1	5	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m		3	2	
	Lead	ppm	ASTM D5185m		<1	<1	
	Copper	ppm	ASTM D5185m		3	<u> 192</u>	
	Tin	ppm	ASTM D5185m		<1	<1	
	Vanadium	ppm	ASTM D5185m		0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	nnm	ASTM D5185m	- 20	າ	Л	
ONTAMINATION	Potassium	ppm	ASTM D5185m		3 2	4	
There is no indication of any contamination in the oil.	Fuel	ppm					
			WC Method		<1.0	<1.0	
	Water		WC Method	>0.1	NEG NEG	NEG NEG	
	Glycol Soot %	%	*ASTM D7844		0.4	0.4	
	Nitration	Abs/cm	*ASTM D7624	- 20	8.3	8.7	
	Sulfation	Abs/.1mm	*ASTM D7624	>20	15.4	22.1	
	Silt		*Visual		NONE	NONE	
	Debris	scalar		NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual *Visual	NONE	NONE	NONE	
		scalar		NONE			
	Appearance Odor	scalar scalar	*Visual *Visual	NORML NORML	NORML NORML	NORML NORML	
	Emulsified Water		*Visual	>0.1	NEG	NEG	
<u></u>			visuai				
LUID CONDITION	Sodium	ppm	ASTM D5185m	>75	0	0	
	Boron	ppm	ASTM D5185m	151	34	148	
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	0.4	<1	0	
	Molybdenum	ppm	ASTM D5185m	250	42	84	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m	0	35	632	
	Calcium	ppm	ASTM D5185m	2046	3184	1487	
	Phosphorus	ppm	ASTM D5185m	1043	47	705	
	Zinc	ppm	ASTM D5185m	943	31	821	
	Sulfur	ppm	ASTM D5185m	5012	2329	2787	
	Oxidation	Abs/.1mm	*ASTM D7414		9.0	17.0	
	Base Number (BN)		ASTM D2896	12.5	6.3	7.4	
	Visc @ 100°C	cSt	ASTM D445		13.6	12.8	







Certificate L2367

Laboratory Sample No.

: MW0054566 Lab Number : 06238979 Unique Number : 11127813 Test Package : MAR 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 17 Jul 2024 **Tested** : 18 Jul 2024

Diagnosed : 19 Jul 2024 - Sean Felton

AMERICAN RIVER TRANSPORTATION CO

209 W VACO RD WICKLIFFE, KY US 42087

T: (314)457-2170

Contact: CRAIG MALASCHAK craig.malaschak@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)

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

Report Id: AMEWIC [WUSCAR] 06238979 (Generated: 07/19/2024 11:57:30) Rev: 1