



TRAAP

Texas Refinery Advanced Analysis Program

# OIL ANALYSIS REPORT

WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>

Machine Id  
**IH 5212**  
 Component  
**Transmission (Auto)**  
 Fluid  
**TRC TEXTRANS MULTI-VEHICLE SYN ATF (36 QTS)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		<b>TR06230344</b>	TR05556303	TR05185901
Sample Date		Client Info		<b>24 Jun 2024</b>	29 May 2022	10 Feb 2021
Machine Age	hrs	Client Info		<b>8459</b>	7675	6959
Oil Age	hrs	Client Info		<b>0</b>	0	0
Filter Age	hrs	Client Info		<b>0</b>	0	0
Oil Changed		Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Filter Changed		Client Info		<b>Not Changed</b>	Not Changed	Not Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>160	<b>42</b>	33	24
Chromium	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	<1
Nickel	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Silver	ppm	ASTM D5185m	>5	<b>&lt;1</b>	0	<1
Aluminum	ppm	ASTM D5185m	>50	<b>7</b>	8	4
Lead	ppm	ASTM D5185m	>50	<b>1</b>	1	<1
Copper	ppm	ASTM D5185m	>225	<b>12</b>	10	4
Tin	ppm	ASTM D5185m	>10	<b>1</b>	1	<1
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	0
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE

## CONTAMINATION

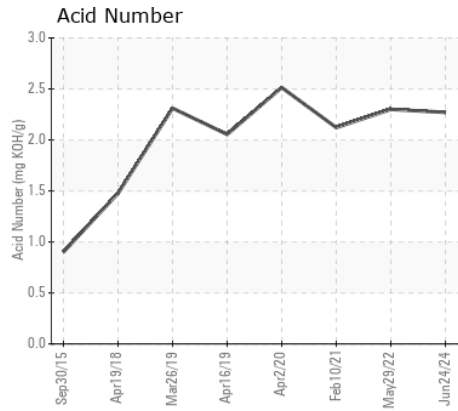
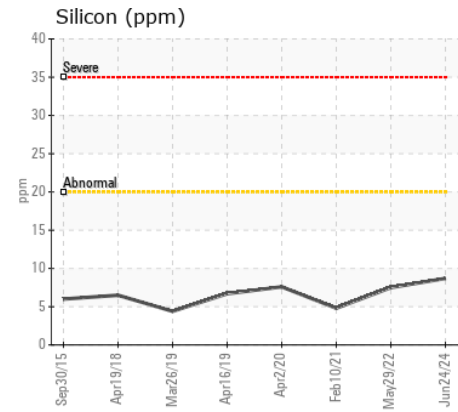
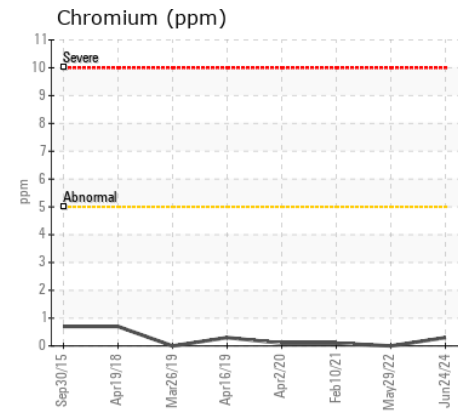
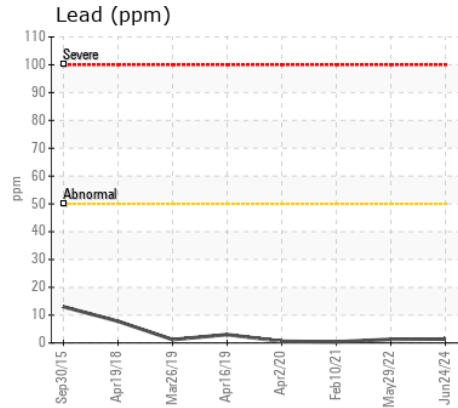
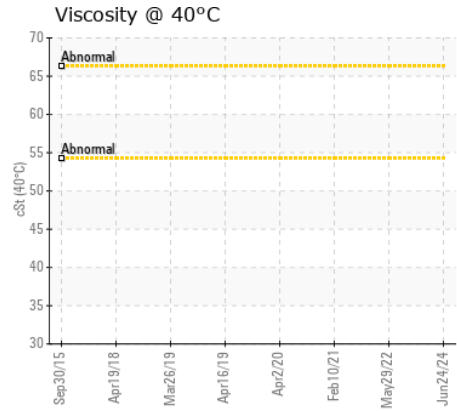
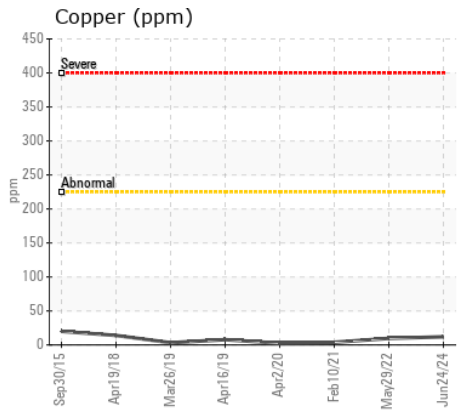
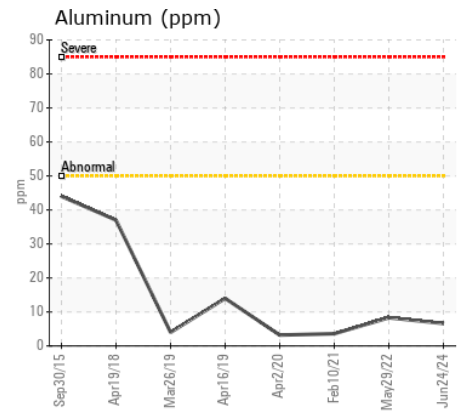
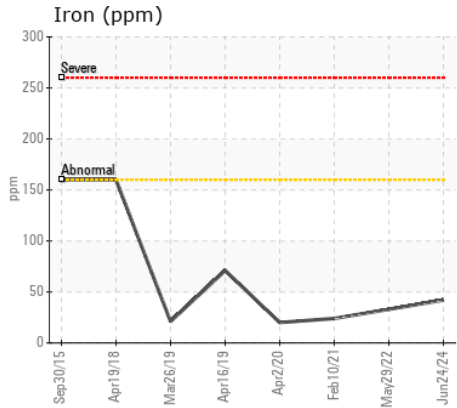
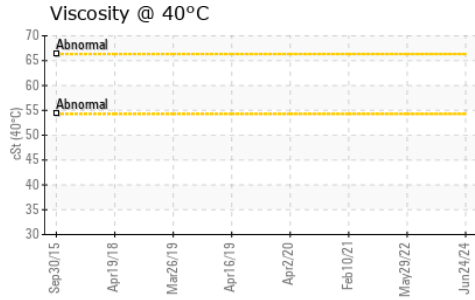
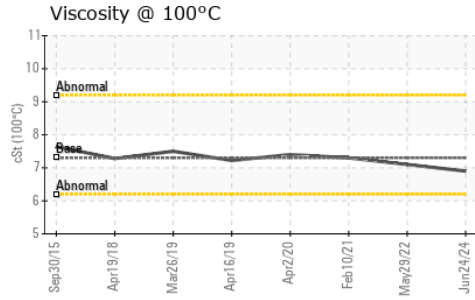
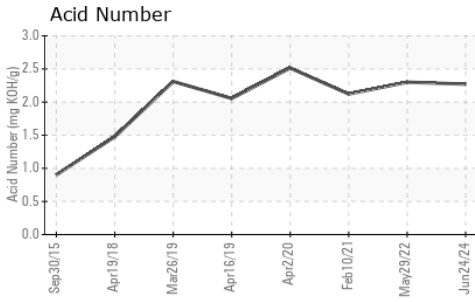
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>20	<b>9</b>	8	5
Potassium	ppm	ASTM D5185m	>20	<b>2</b>	2	0
Water		WC Method	>0.1	<b>NEG</b>	NEG	NEG
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	<b>NEG</b>	NEG	NEG

## FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the fluid is suitable for further service.

Sodium	ppm	ASTM D5185m		<b>6</b>	5	6
Boron	ppm	ASTM D5185m		<b>316</b>	346	267
Barium	ppm	ASTM D5185m		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m		<b>&lt;1</b>	<1	0
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>&lt;1</b>	1	0
Calcium	ppm	ASTM D5185m		<b>247</b>	253	254
Phosphorus	ppm	ASTM D5185m		<b>590</b>	596	600
Zinc	ppm	ASTM D5185m		<b>4</b>	4	1
Sulfur	ppm	ASTM D5185m		<b>2275</b>	2232	2184
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>2.27</b>	2.30	2.121
Visc @ 40°C	cSt	ASTM D445		<b>33.1</b>	---	---
Visc @ 100°C	cSt	ASTM D445	7.3	<b>6.9</b>	7.1	7.3
Viscosity Index (VI)	Scale	ASTM D2270	193	<b>175</b>	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TR06230344 **Received** : 08 Jul 2024  
**Lab Number** : 06230344 **Tested** : 10 Jul 2024  
**Unique Number** : 11113837 **Diagnosed** : 10 Jul 2024 - Don Baldrige  
**Test Package** : MOB 2 ( Additional Tests: KV100, VI)

**MATHIOWETZ CONSTRUCTION COMPANY**  
 30676 COUNTY RD 24  
 SLEEPY EYE, MN  
 US 56085  
 Contact: Jim Warwick  
 jimwarwick@mathiowetzconst.com

To discuss this sample report, contact Customer Service at 1-800-827-0711.

\* - 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)

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F: