



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id

76

Component

3 Transmission (Auto)

Fluid

TRC TEXTRANS MULTI-VEHICLE SYN ATF (10 GAL)

RECOMMENDATION

We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR0001342	TR0001352	TR0001148
Sample Date		Client Info		03 May 2024	18 Jan 2024	06 Nov 2023
Machine Age	hrs	Client Info		24753	24114	23801
Oil Age	hrs	Client Info		24753	24114	23801
Filter Age	hrs	Client Info		952	24114	23801
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				SEVERE	SEVERE	SEVERE

WEAR

Clutch and/or bushing/bearing wear is indicated.

Iron	ppm	ASTM D5185m	>230	150	140	113
Chromium	ppm	ASTM D5185m	>2	0	<1	0
Nickel	ppm	ASTM D5185m	>5	<1	1	<1
Titanium	ppm	ASTM D5185m	>2	0	<1	0
Silver	ppm	ASTM D5185m	>5	0	0	0
Aluminum	ppm	ASTM D5185m	>65	11	11	10
Lead	ppm	ASTM D5185m	>55	27	18	16
Copper	ppm	ASTM D5185m	>85	▲ 635	▲ 617	▲ 459
Tin	ppm	ASTM D5185m	>5	2	2	1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

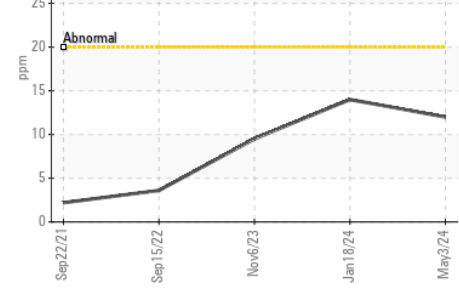
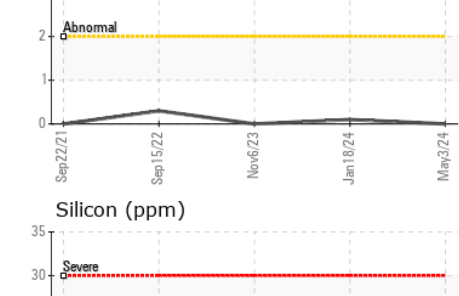
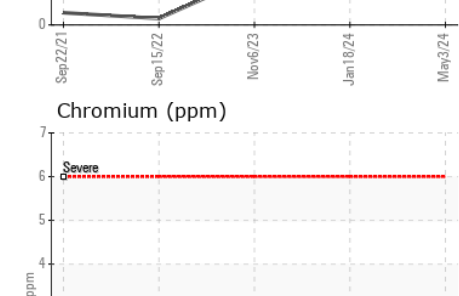
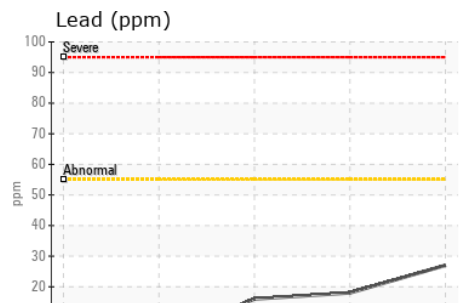
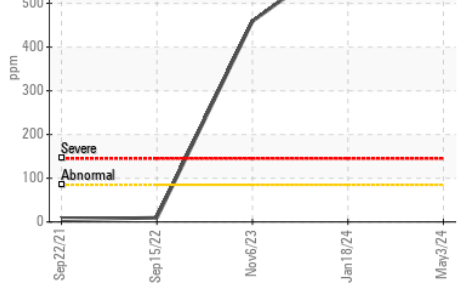
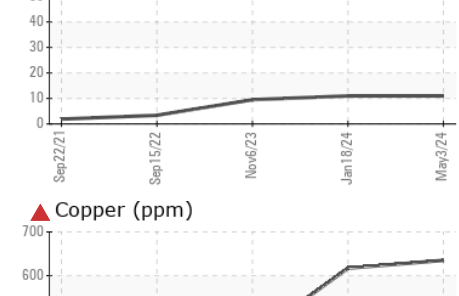
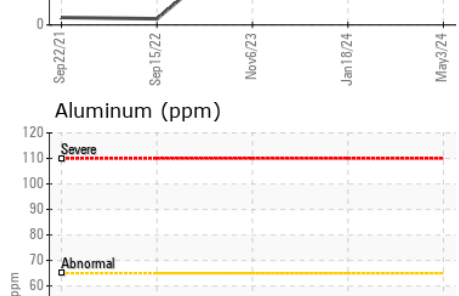
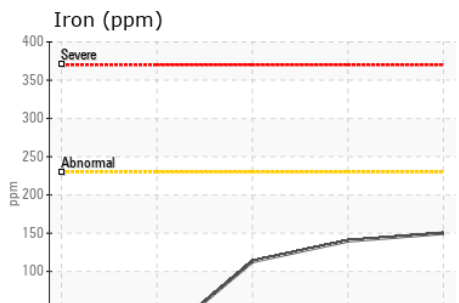
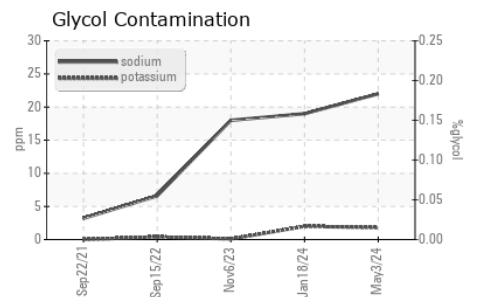
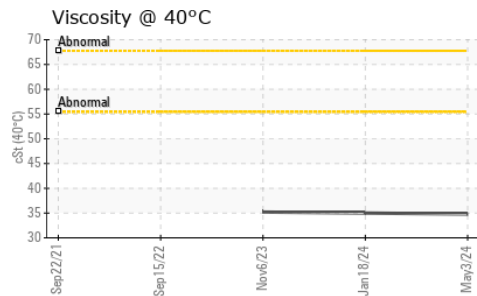
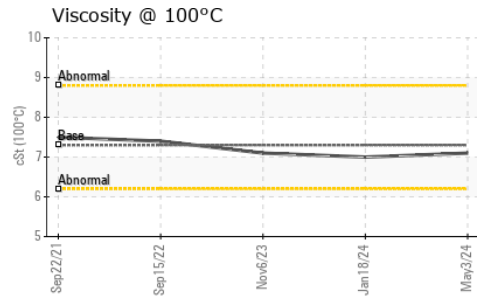
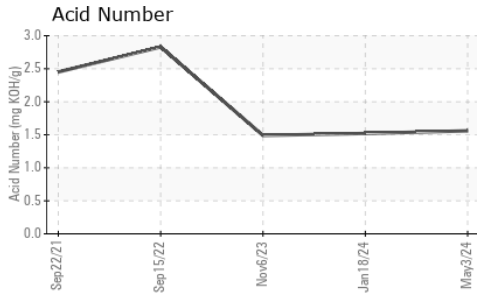
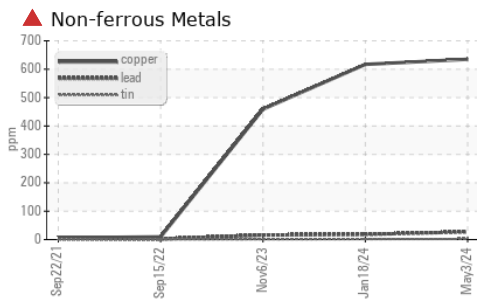
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>20	12	14	10
Potassium	ppm	ASTM D5185m	>20	2	2	<1
Water		WC Method	>0.1	NEG	NEG	NEG
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG

FLUID CONDITION

The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185m		22	19	18
Boron	ppm	ASTM D5185m		145	169	138
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	0
Manganese	ppm	ASTM D5185m		2	2	1
Magnesium	ppm	ASTM D5185m		5	6	3
Calcium	ppm	ASTM D5185m		684	681	683
Phosphorus	ppm	ASTM D5185m		756	814	693
Zinc	ppm	ASTM D5185m		221	225	227
Sulfur	ppm	ASTM D5185m		2888	2957	2497
Acid Number (AN)	mg KOH/g	ASTM D8045		1.56	1.52	1.49
Visc @ 40°C	cSt	ASTM D445		34.8	35.0	35.2
Visc @ 100°C	cSt	ASTM D445	7.3	7.1	7	7.1
Viscosity Index (VI)	Scale	ASTM D2270	193	172	166	169



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR0001342 **Received** : 09 May 2024
Lab Number : 06174703 **Tested** : 13 May 2024
Unique Number : 11020756 **Diagnosed** : 13 May 2024 - Don Baldrige
Test Package : MOB 2 (Additional Tests: Glycol, KV100, VI)
 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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