



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
STERLING 5481

Component
Transmission

Fluid
TRC TEXTRANS MULTI-VEHICLE SYN ATF (34 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06210323	TR05556298	TR04995575
Sample Date		Client Info		06 Jun 2024	18 May 2022	02 Jun 2020
Machine Age	hrs	Client Info		31216	29513	13463
Oil Age	hrs	Client Info		0	0	10000
Filter Age	hrs	Client Info		0	0	10000
Oil Changed		Client Info		Not Changed	Not Changed	Not Changed
Filter Changed		Client Info		Not Changed	Not Changed	Not Changed
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>250	100	75	35
Chromium	ppm	ASTM D5185m	>2	0	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	0
Titanium	ppm	ASTM D5185m	>2	0	0	0
Silver	ppm	ASTM D5185m		0	<1	0
Aluminum	ppm	ASTM D5185m	>55	29	36	7
Lead	ppm	ASTM D5185m	>65	5	4	2
Copper	ppm	ASTM D5185m	>230	60	51	28
Tin	ppm	ASTM D5185m	>6	1	1	<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

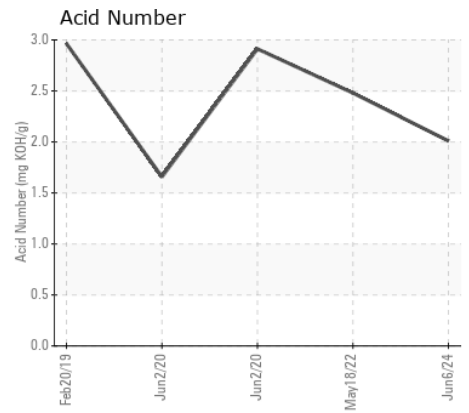
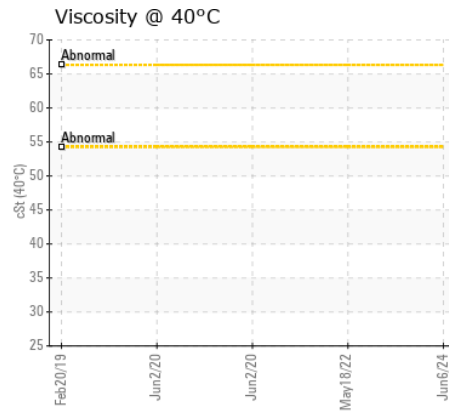
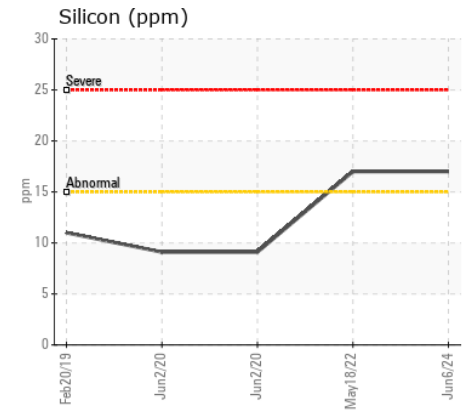
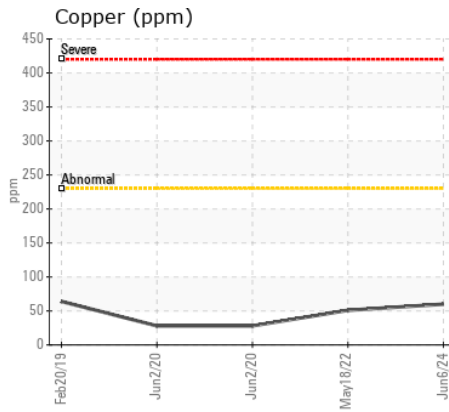
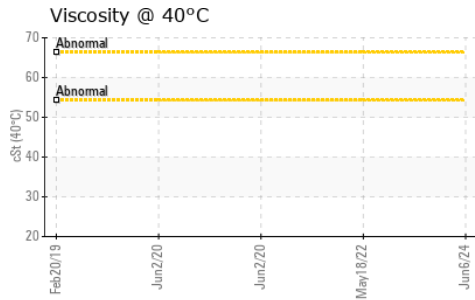
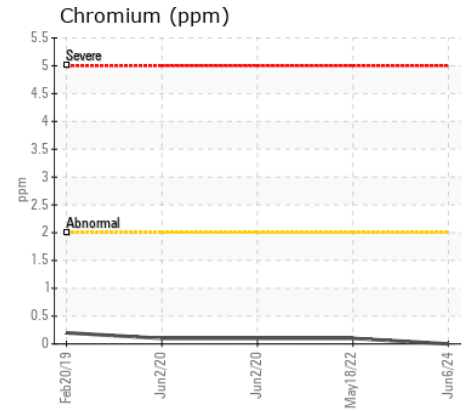
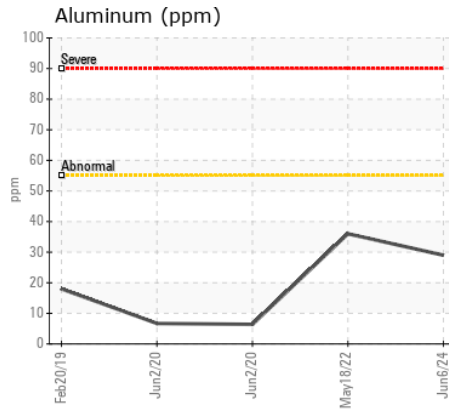
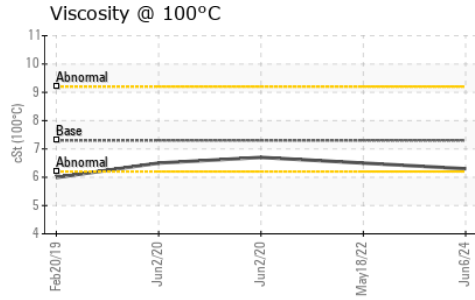
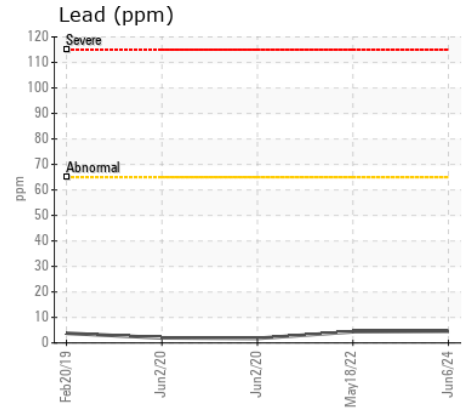
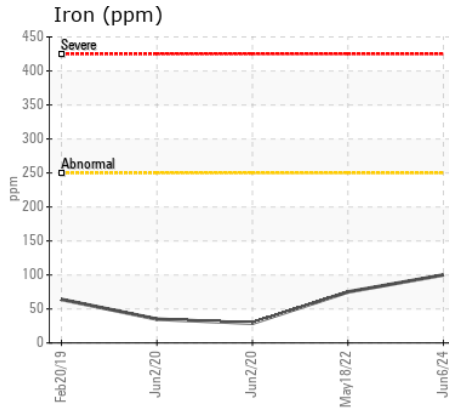
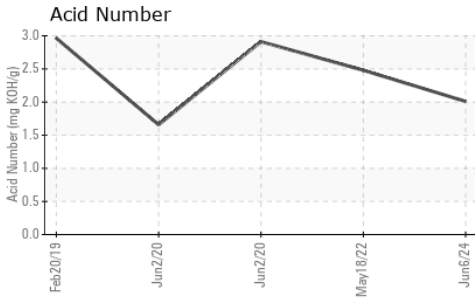
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>15	17	17	9
Potassium	ppm	ASTM D5185m	>20	<1	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. The condition of the fluid is suitable for further service.

Sodium	ppm	ASTM D5185m		16	16	15
Boron	ppm	ASTM D5185m		250	349	340
Barium	ppm	ASTM D5185m		0	0	<1
Molybdenum	ppm	ASTM D5185m		0	<1	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		<1	2	<1
Calcium	ppm	ASTM D5185m		197	252	191
Phosphorus	ppm	ASTM D5185m		691	647	597
Zinc	ppm	ASTM D5185m		5	39	9
Sulfur	ppm	ASTM D5185m		2687	2247	1805
Acid Number (AN)	mg KOH/g	ASTM D8045		2.01	2.48	2.912
Visc @ 40°C	cSt	ASTM D445		29.6	---	---
Visc @ 100°C	cSt	ASTM D445	7.3	6.3	6.5	6.7
Viscosity Index (VI)	Scale	ASTM D2270	193	171	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR06210323 **Received** : 14 Jun 2024
Lab Number : 06210323 **Tested** : 18 Jun 2024
Unique Number : 11083187 **Diagnosed** : 18 Jun 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)

T:
F: