



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
FREIGHTLINER 5029

Component
Transmission

Fluid
TRC TEXTRANS MULTI-VEHICLE SYN ATF (36 GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06215910	TR05472590	TR05303237
Sample Date		Client Info		19 Jun 2024	11 Feb 2022	23 Jun 2021
Machine Age	hrs	Client Info		5161	2221	1174
Oil Age	hrs	Client Info		0	0	1174
Filter Age	hrs	Client Info		0	0	1174
Oil Changed		Client Info		Not Changed	Not Changed	Not Changed
Filter Changed		Client Info		Not Changed	Not Changed	Not Changed
Sample Status				ABNORMAL	NORMAL	NORMAL

WEAR

The aluminum level is abnormal. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>250	168	108	51
Chromium	ppm	ASTM D5185m	>2	<1	<1	<1
Nickel	ppm	ASTM D5185m	>2	0	0	6
Titanium	ppm	ASTM D5185m	>2	0	0	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>55	▲ 73	38	25
Lead	ppm	ASTM D5185m	>65	35	24	20
Copper	ppm	ASTM D5185m	>230	51	14	6
Tin	ppm	ASTM D5185m	>6	5	4	5
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

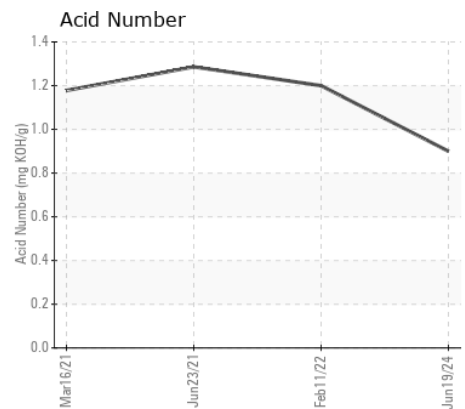
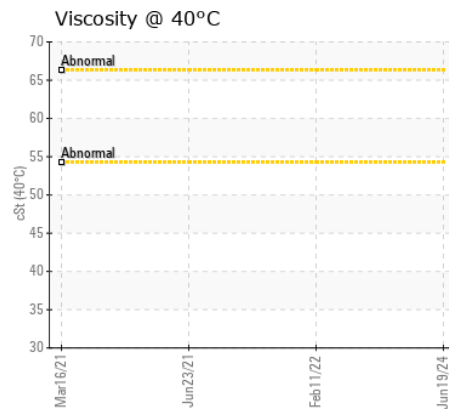
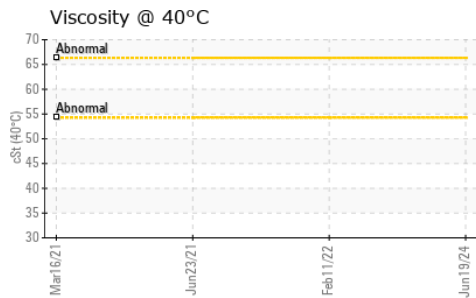
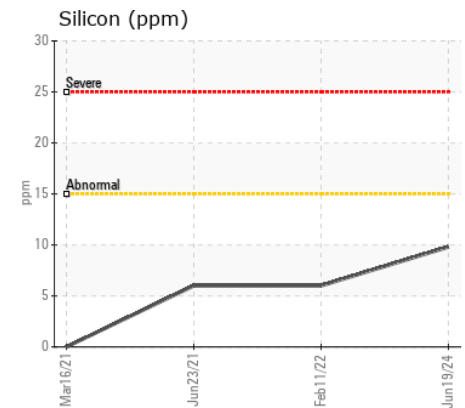
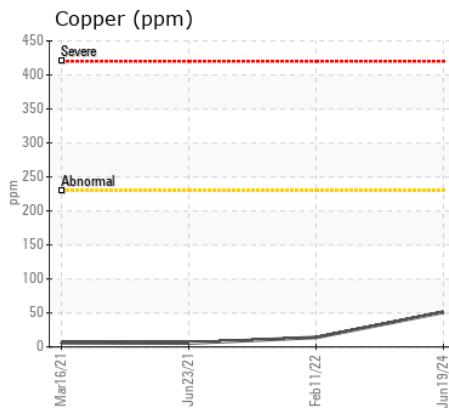
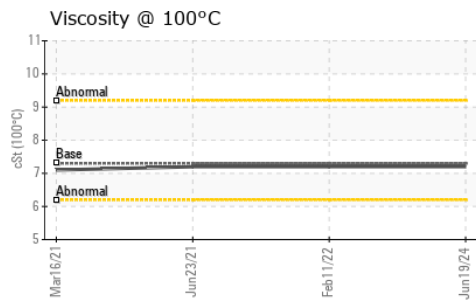
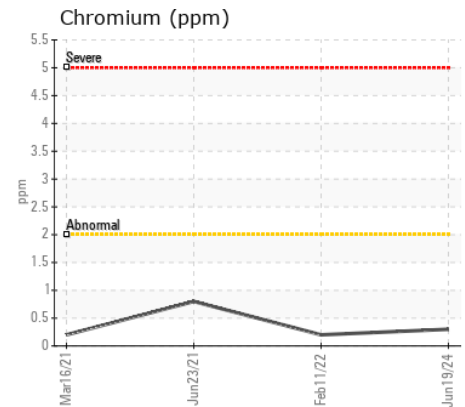
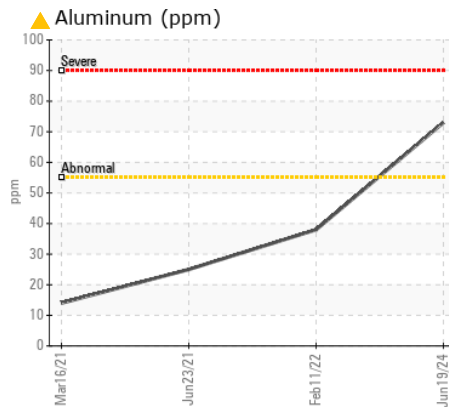
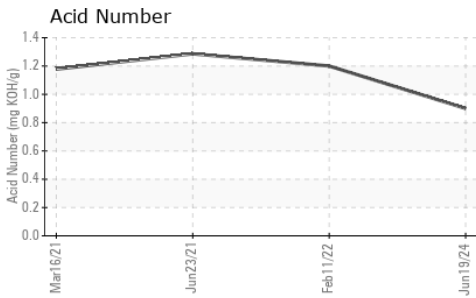
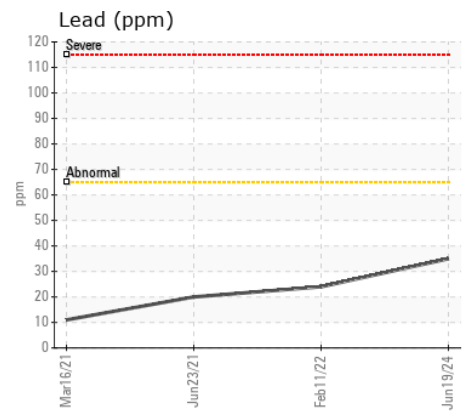
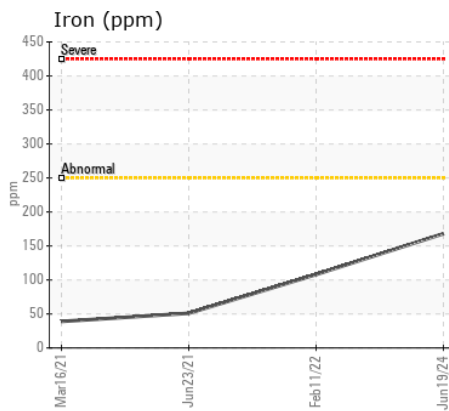
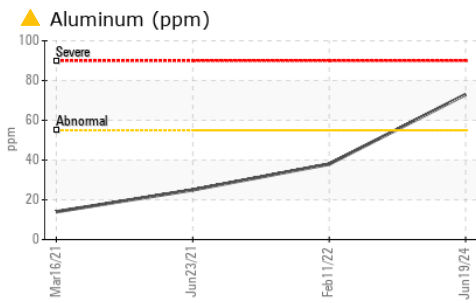
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>15	10	6	6
Potassium	ppm	ASTM D5185m	>20	4	0	15
Water		WC Method	>0.1	NEG	NEG	NEG
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	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		7	5	2
Boron	ppm	ASTM D5185m		98	143	143
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		1	2	1
Manganese	ppm	ASTM D5185m		3	2	1
Magnesium	ppm	ASTM D5185m		0	0	11
Calcium	ppm	ASTM D5185m		61	63	59
Phosphorus	ppm	ASTM D5185m		298	373	257
Zinc	ppm	ASTM D5185m		5	0	5
Sulfur	ppm	ASTM D5185m		1262	853	942
Acid Number (AN)	mg KOH/g	ASTM D8045		0.90	1.20	1.286
Visc @ 40°C	cSt	ASTM D445		35.2	---	---
Visc @ 100°C	cSt	ASTM D445	7.3	7.2	7.2	7.2
Viscosity Index (VI)	Scale	ASTM D2270	193	174	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR06215910 **Received** : 20 Jun 2024
Lab Number : 06215910 **Tested** : 22 Jun 2024
Unique Number : 11088774 **Diagnosed** : 23 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)

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F: