



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**FREIGHTLINER 5006**

Component  
**Transmission (Auto)**

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

**RECOMMENDATION**

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06230345	TR05518380	TR05489178
Sample Date		Client Info		12 Jun 2024	01 Apr 2022	28 Feb 2022
Machine Age	hrs	Client Info		23420	21217	21208
Oil Age	hrs	Client Info		0	0	1200
Filter Age	hrs	Client Info		0	0	1200
Oil Changed		Client Info		Not Changed	Changed	Not Changed
Filter Changed		Client Info		Not Changed	Changed	Not Changed
Sample Status				NORMAL	NORMAL	ABNORMAL

**WEAR**

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>160	157	181	▲ 269
Chromium	ppm	ASTM D5185m	>5	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>5	<1	0	0
Aluminum	ppm	ASTM D5185m	>50	8	16	17
Lead	ppm	ASTM D5185m	>50	4	7	8
Copper	ppm	ASTM D5185m	>225	40	51	58
Tin	ppm	ASTM D5185m	>10	1	2	2
Vanadium	ppm	ASTM D5185m		<1	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

**CONTAMINATION**

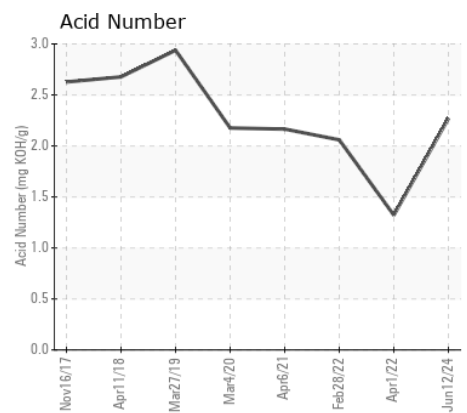
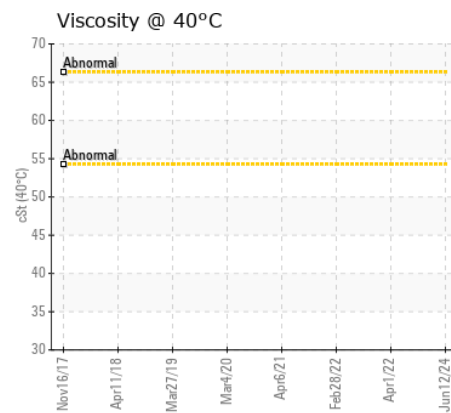
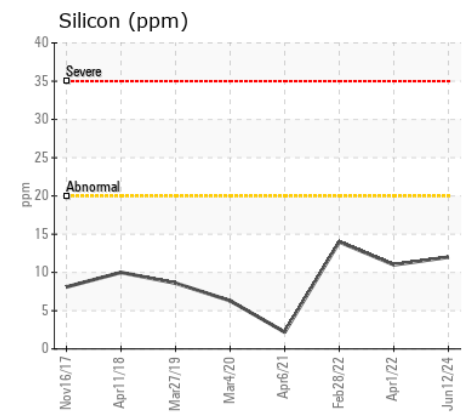
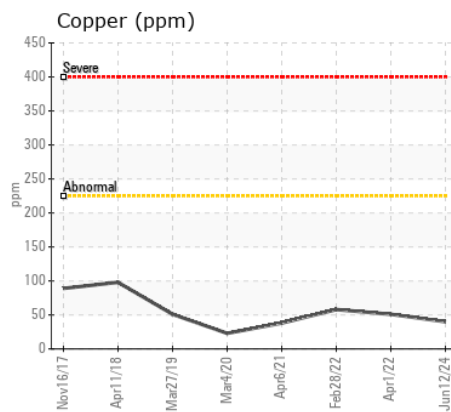
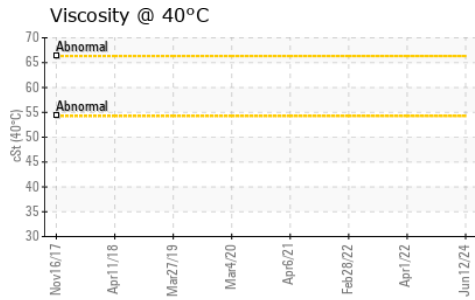
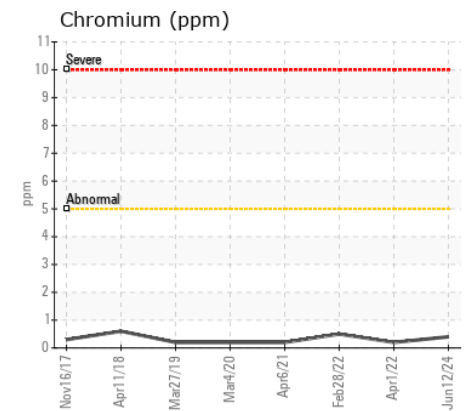
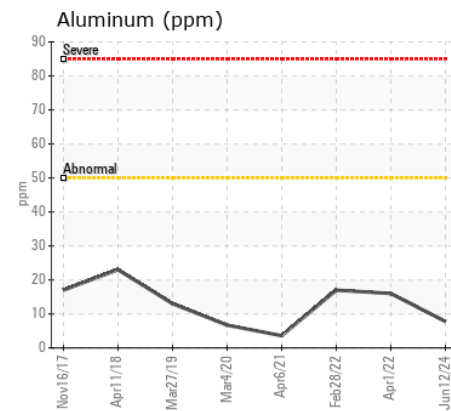
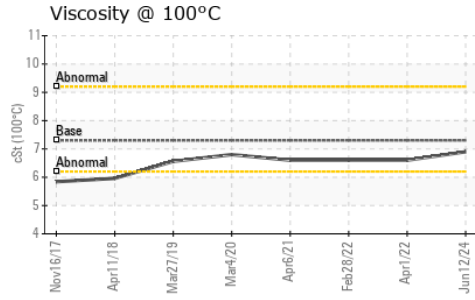
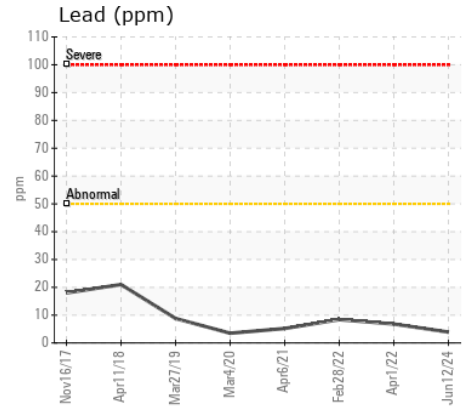
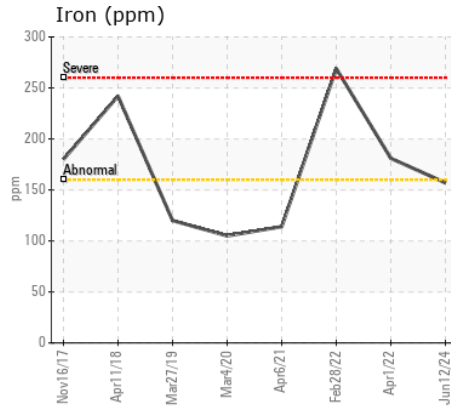
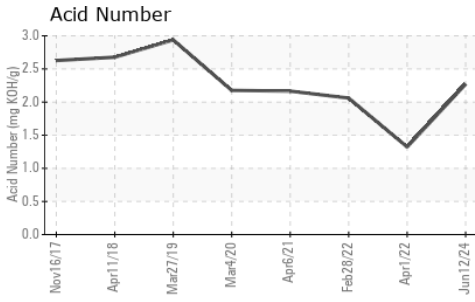
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>20	12	11	14
Potassium	ppm	ASTM D5185m	>20	2	2	2
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		3	3	5
Boron	ppm	ASTM D5185m		322	320	323
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		1	1	2
Magnesium	ppm	ASTM D5185m		2	<1	0
Calcium	ppm	ASTM D5185m		261	244	281
Phosphorus	ppm	ASTM D5185m		594	595	700
Zinc	ppm	ASTM D5185m		15	14	9
Sulfur	ppm	ASTM D5185m		2353	2003	2040
Acid Number (AN)	mg KOH/g	ASTM D8045		2.27	1.322	2.06
Visc @ 40°C	cSt	ASTM D445		33.0	---	---
Visc @ 100°C	cSt	ASTM D445	7.3	6.9	6.6	6.6
Viscosity Index (VI)	Scale	ASTM D2270	193	176	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TR06230345  
**Lab Number** : 06230345  
**Unique Number** : 11113838  
**Test Package** : MOB 2 ( Additional Tests: KV100, VI )

**Received** : 08 Jul 2024  
**Tested** : 10 Jul 2024  
**Diagnosed** : 10 Jul 2024 - Don Baldrige

**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: