



TRAAP

Texas Refinery Advanced Analysis Program

# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**INTERNATIONAL BUS BCSD 18E**  
 Component  
**Transmission**  
 Fluid  
**TRC DEXRON III/MERCON TRANS (18 QTS)**

## RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06155245	TR05794186	TR05656871
Sample Date		Client Info		03 Apr 2024	23 Feb 2023	14 Sep 2022
Machine Age	mls	Client Info		185875	116901	172162
Oil Age	mls	Client Info		36152	33274	22439
Filter Age	mls	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				NORMAL	NORMAL	NORMAL

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>250	73	25	57
Chromium	ppm	ASTM D5185m	>2	<1	0	0
Nickel	ppm	ASTM D5185m	>2	<1	0	0
Titanium	ppm	ASTM D5185m	>2	<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>55	35	14	28
Lead	ppm	ASTM D5185m	>65	13	10	7
Copper	ppm	ASTM D5185m	>230	27	22	18
Tin	ppm	ASTM D5185m	>6	8	3	5
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

## CONTAMINATION

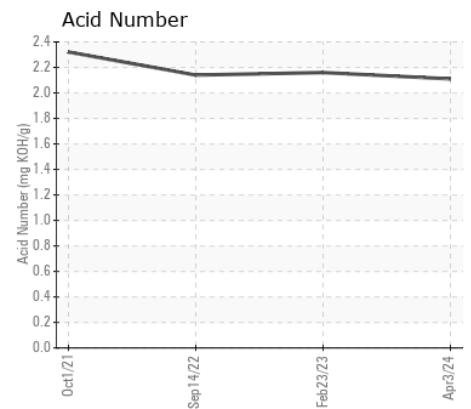
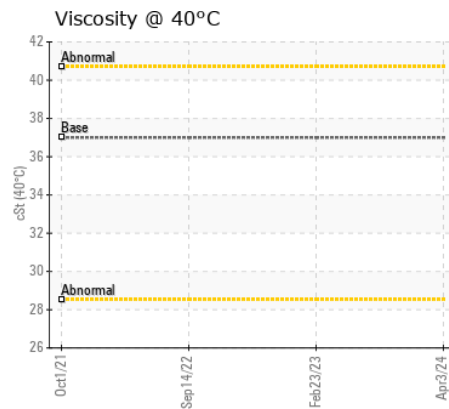
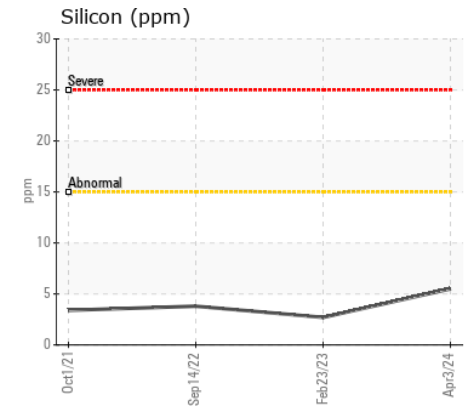
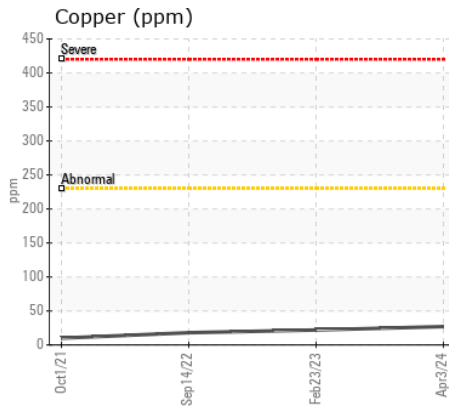
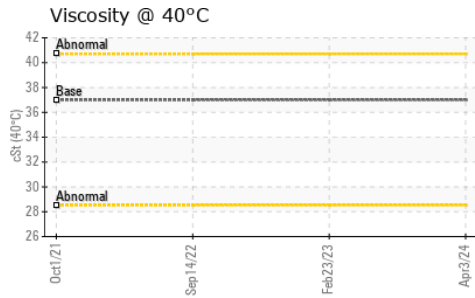
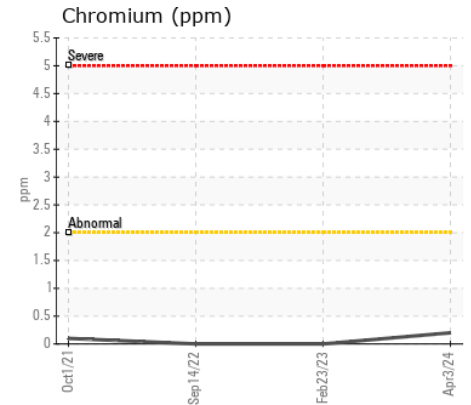
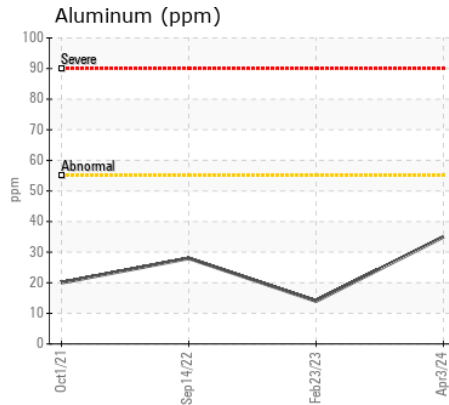
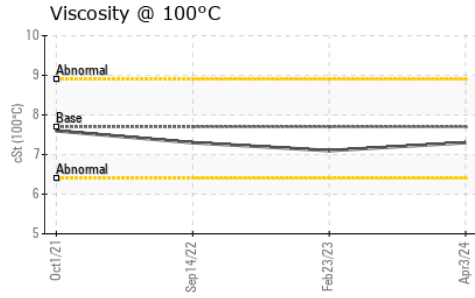
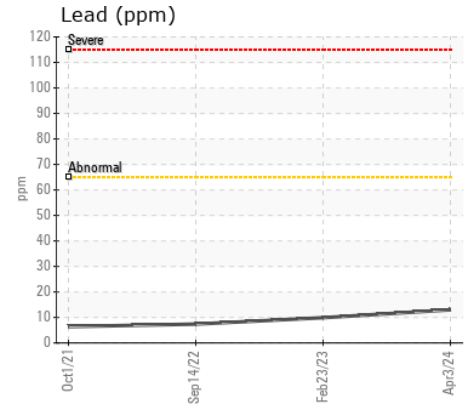
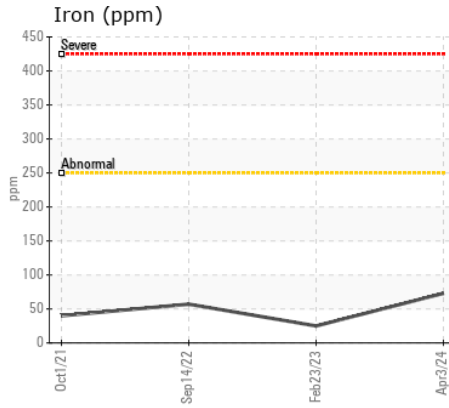
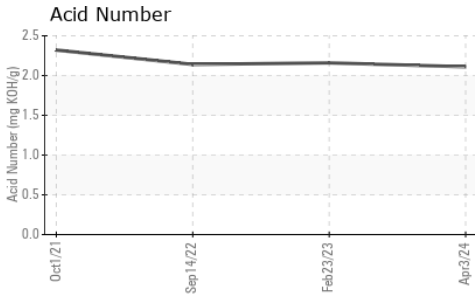
There is no indication of any contamination in the fluid.

Silicon	ppm	ASTM D5185m	>15	6	3	4
Potassium	ppm	ASTM D5185m	>20	2	0	<1
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		8	10	11
Boron	ppm	ASTM D5185m		285	281	237
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		1	4	0
Calcium	ppm	ASTM D5185m		210	297	197
Phosphorus	ppm	ASTM D5185m		574	580	563
Zinc	ppm	ASTM D5185m		8	11	0
Sulfur	ppm	ASTM D5185m		1951	2270	1848
Acid Number (AN)	mg KOH/g	ASTM D8045		2.11	2.16	2.14
Visc @ 40°C	cSt	ASTM D445	37	36.3	---	---
Visc @ 100°C	cSt	ASTM D445	7.7	7.3	7.1	7.3
Viscosity Index (VI)	Scale	ASTM D2270	184	171	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TR06155245 **Received** : 19 Apr 2024  
**Lab Number** : 06155245 **Tested** : 24 Apr 2024  
**Unique Number** : 10990668 **Diagnosed** : 24 Apr 2024 - Jonathan Hester  
**Test Package** : MOB 2 ( Additional Tests: KV100, VI )

**COLORADO RIVER UNION HS**  
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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)