



TRAAP

Texas Refinery Advanced Analysis Program

# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id  
**8 - 2 TWIN FABRIC COLANDAR**  
 Component  
**Gearbox**  
 Fluid  
**TRC 890 VARI-PURPOSE 85W140 (135 GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06029543	TR05939825	TR05854471
Sample Date		Client Info		21 Nov 2023	30 Aug 2023	18 May 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	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	>200	18	19	19
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>10	<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	2	0
Lead	ppm	ASTM D5185m	>50	3	2	3
Copper	ppm	ASTM D5185m	>200	20	19	20
Tin	ppm	ASTM D5185m	>10	<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

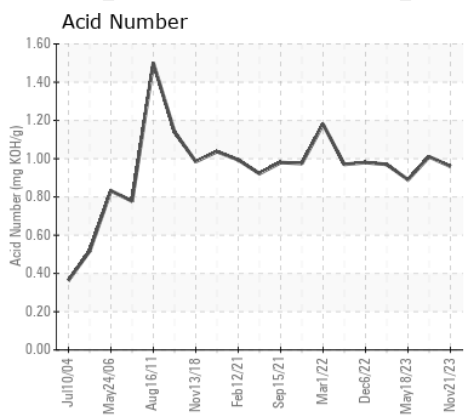
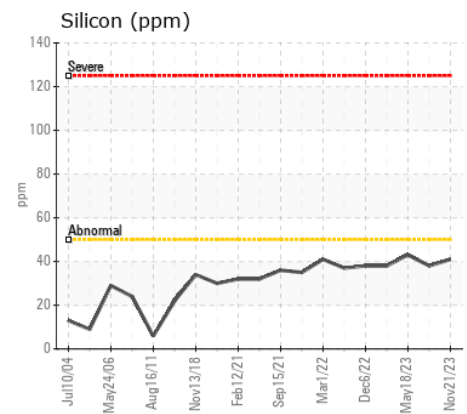
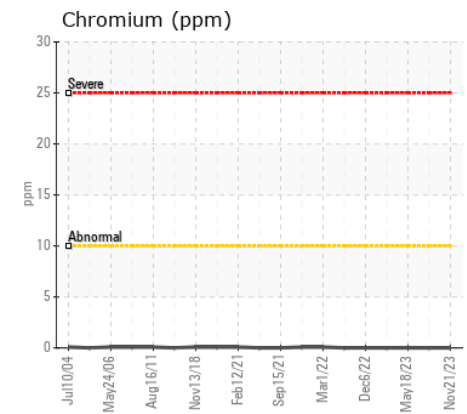
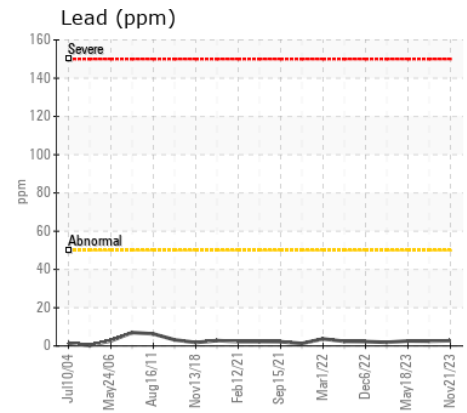
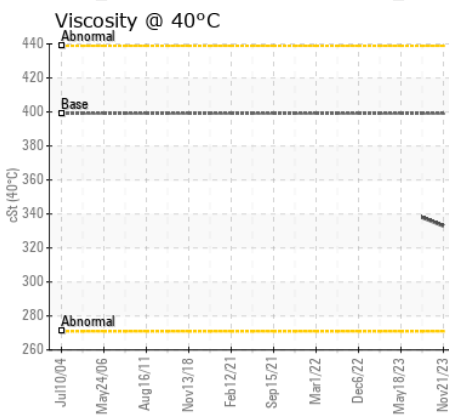
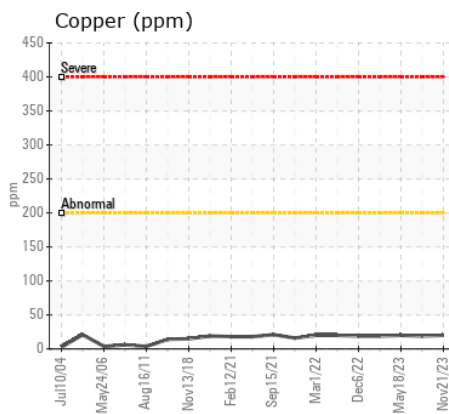
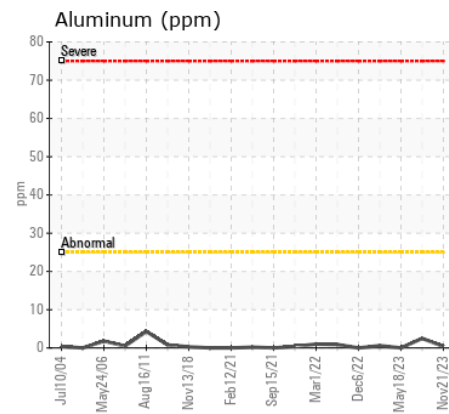
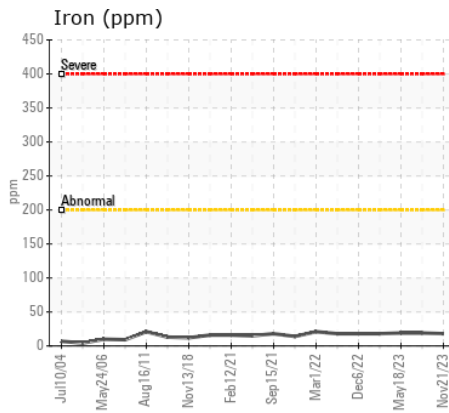
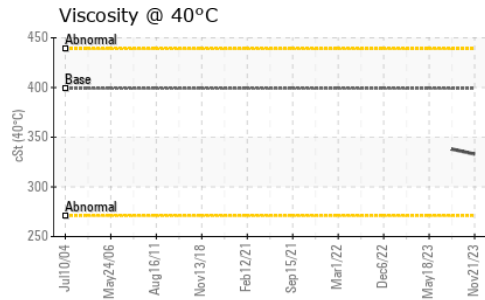
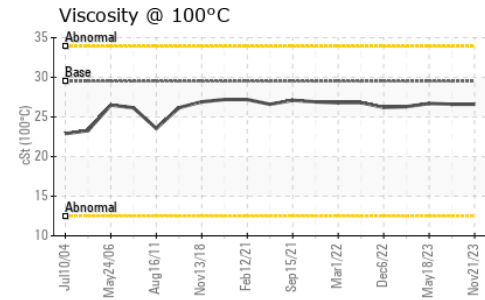
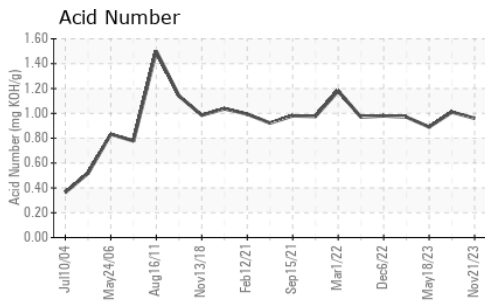
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	41	38	43
Potassium	ppm	ASTM D5185m	>20	2	1	<1
Water		WC Method	>0.2	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	>0.2	NEG	NEG	NEG

## FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m		5	4	4
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		0	3	2
Calcium	ppm	ASTM D5185m		0	0	6
Phosphorus	ppm	ASTM D5185m		644	620	573
Zinc	ppm	ASTM D5185m		0	10	16
Sulfur	ppm	ASTM D5185m		21034	25056	17300
Acid Number (AN)	mg KOH/g	ASTM D8045		0.96	1.01	0.89
Visc @ 40°C	cSt	ASTM D445	399	333	338	---
Visc @ 100°C	cSt	ASTM D445	29.5	26.6	26.6	26.7
Viscosity Index (VI)	Scale	ASTM D2270		105	104	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513

**Sample No.** : TR06029543

**Lab Number** : 06029543

**Unique Number** : 10779334

**Test Package** : MOB 2 ( Additional Tests: KV100, VI)

**Received** : 08 Dec 2023

**Tested** : 11 Dec 2023

**Diagnosed** : 11 Dec 2023 - Wes Davis

**CARLSTAR GROUP - FORMERLY CARLISLE TIRE**

520 JD YARNELL IND. PKWY

CLINTON, TN

US 37716

Contact: JOHN GAINES

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: (865)463-3696