



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
WEILER 0033
 Component
Right Final Drive
 Fluid
TRC 890 VARI-PURPOSE SAE80W90 (3 QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06062953	TR05010648	---
Sample Date		Client Info		08 Nov 2023	04 Jun 2020	---
Machine Age	hrs	Client Info		400	64	---
Oil Age	hrs	Client Info		196	64	---
Filter Age	hrs	Client Info		0	64	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Not Changd	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>500	59	168	---
Chromium	ppm	ASTM D5185m	>10	1	8	---
Nickel	ppm	ASTM D5185m	>10	0	<1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>25	0	<1	---
Lead	ppm	ASTM D5185m	>25	0	<1	---
Copper	ppm	ASTM D5185m	>50	14	13	---
Tin	ppm	ASTM D5185m	>10	0	0	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	VLITE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

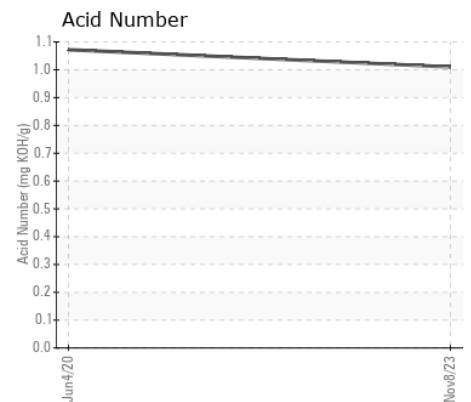
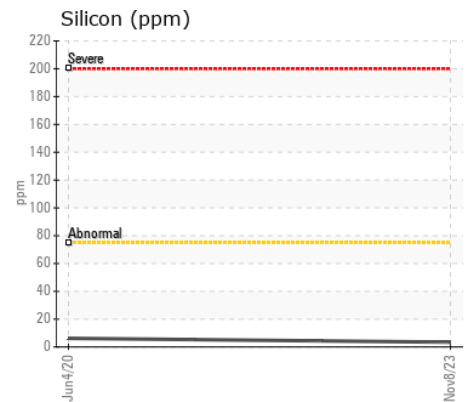
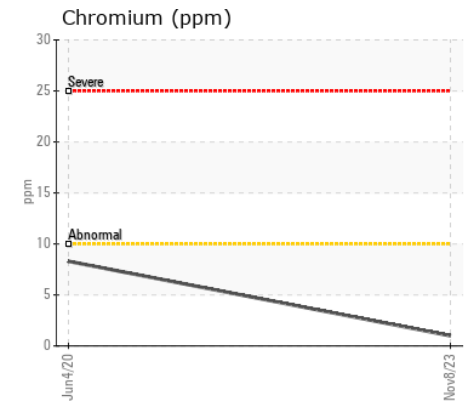
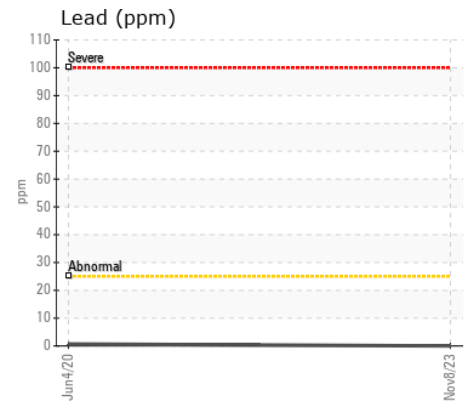
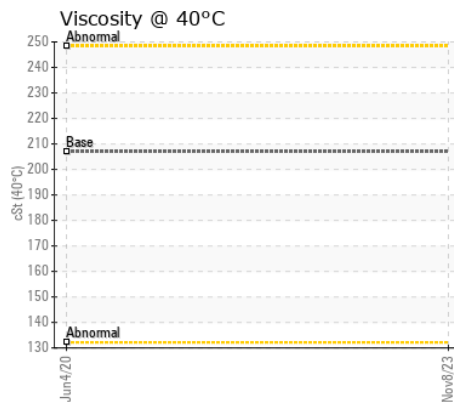
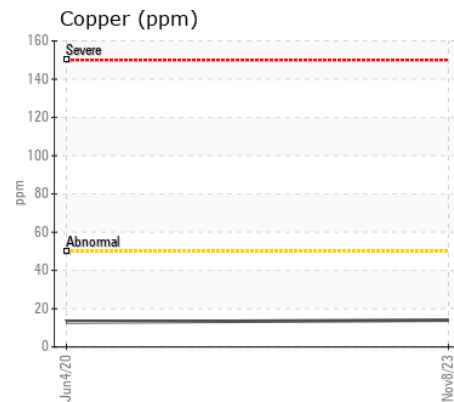
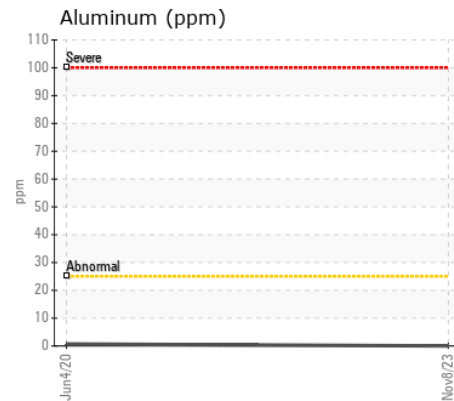
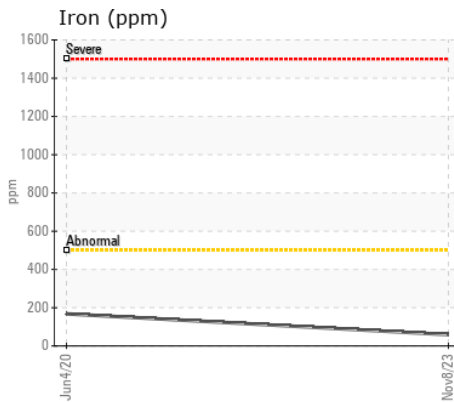
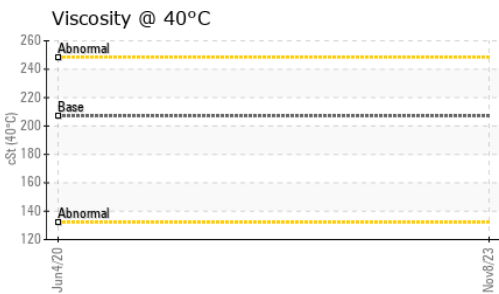
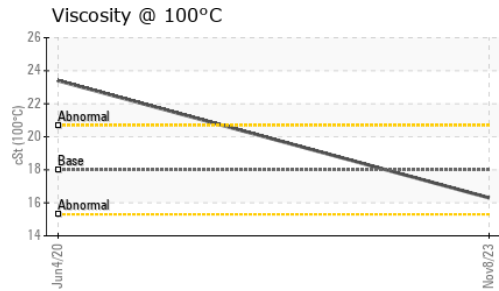
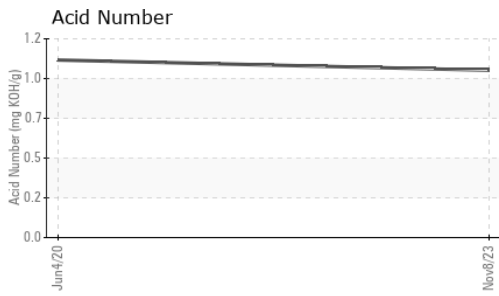
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	3	6	---
Potassium	ppm	ASTM D5185m	>20	2	2	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	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		<1	2	---
Boron	ppm	ASTM D5185m		4	23	---
Barium	ppm	ASTM D5185m		0	<1	---
Molybdenum	ppm	ASTM D5185m		0	1	---
Manganese	ppm	ASTM D5185m		2	6	---
Magnesium	ppm	ASTM D5185m		0	5	---
Calcium	ppm	ASTM D5185m		27	72	---
Phosphorus	ppm	ASTM D5185m	1000	689	440	---
Zinc	ppm	ASTM D5185m		<1	28	---
Sulfur	ppm	ASTM D5185m	17000	17891	18499	---
Acid Number (AN)	mg KOH/g	ASTM D8045		1.01	1.072	---
Visc @ 40°C	cSt	ASTM D445	207	152	---	---
Visc @ 100°C	cSt	ASTM D445	18	16.3	23.4	---
Viscosity Index (VI)	Scale	ASTM D2270	98	112	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR06062953 **Received** : 17 Jan 2024
Lab Number : 06062953 **Diagnosed** : 18 Jan 2024
Unique Number : 10834335 **Diagnostician** : Wes Davis
Test Package : MOB 2 (Additional Tests: KV100, VI)

RANDALL COUNTY ROAD DEPT.
 301 WEST HIGHWAY 60
 CANYON, TX
 US 79015
 Contact: MIKE LEWIS

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: