



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
FLENDER CHAIR 6
 Component
Swing Drive
 Fluid
TRC INDUSTRIAL GEAR 320 (20 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR05886215	TR05822840	---
Sample Date		Client Info		08 Jun 2023	12 Apr 2023	---
Machine Age	hrs	Client Info		0	0	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Not Changd	---
Filter Changed		Client Info		N/A	Not Changd	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>150	4	▲ 193	---
Chromium	ppm	ASTM D5185m	>10	0	2	---
Nickel	ppm	ASTM D5185m	>10	0	1	---
Titanium	ppm	ASTM D5185m		0	1	---
Silver	ppm	ASTM D5185m		<1	0	---
Aluminum	ppm	ASTM D5185m	>25	0	15	---
Lead	ppm	ASTM D5185m	>100	0	0	---
Copper	ppm	ASTM D5185m	>50	<1	2	---
Tin	ppm	ASTM D5185m	>10	0	<1	---
Vanadium	ppm	ASTM D5185m		0	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

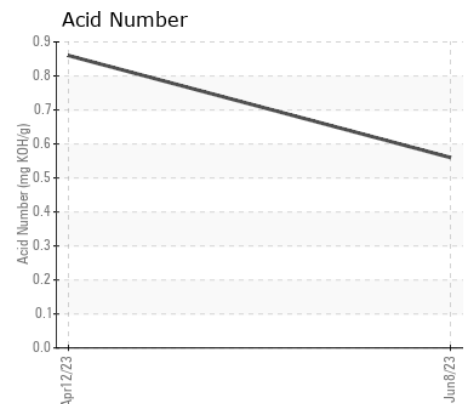
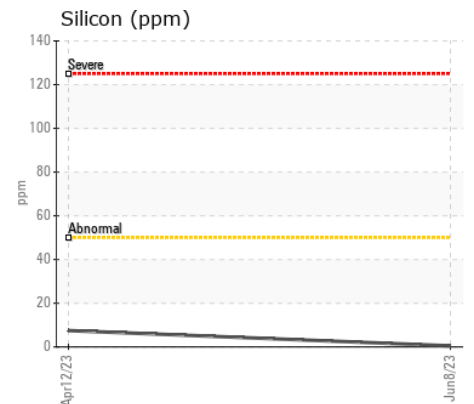
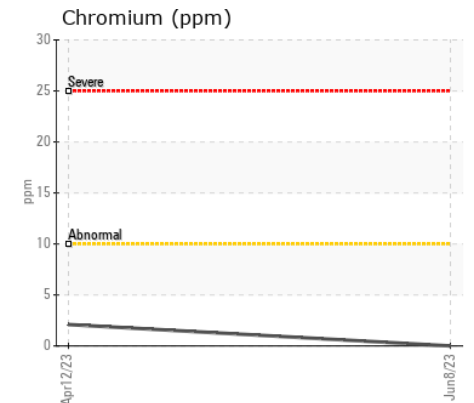
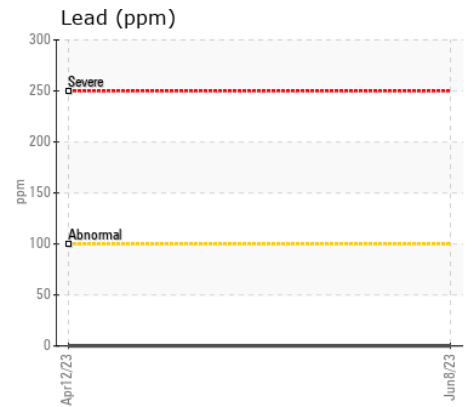
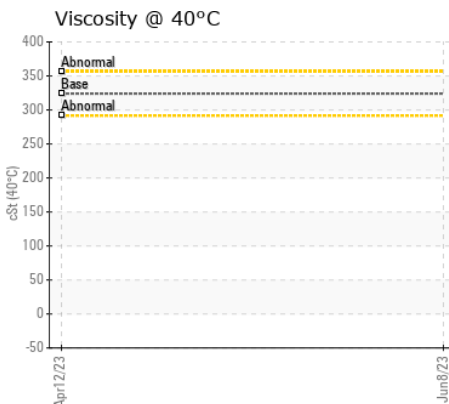
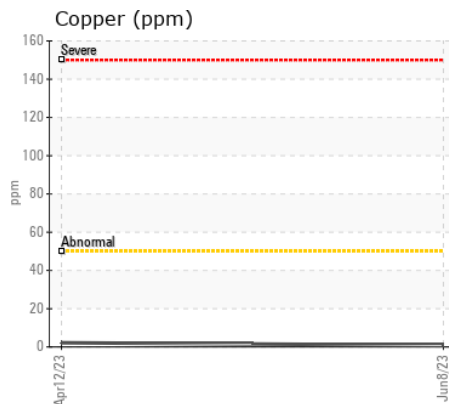
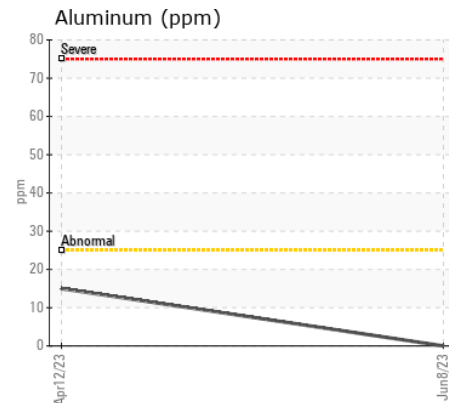
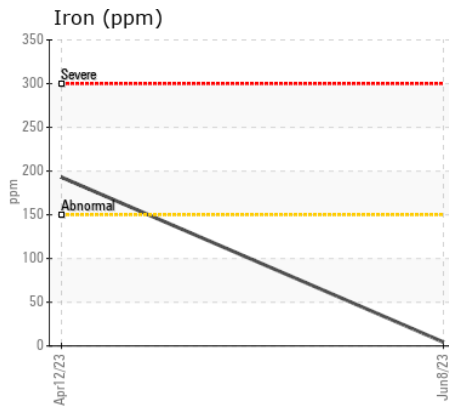
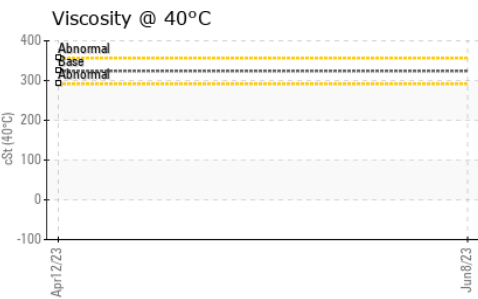
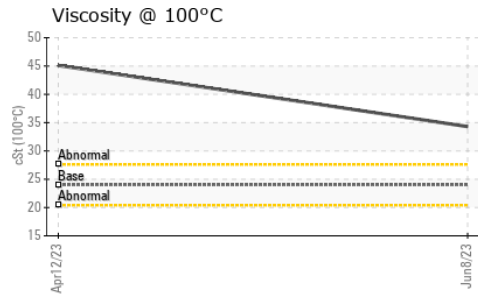
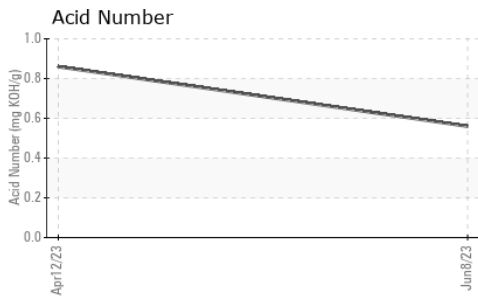
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>50	<1	8	---
Potassium	ppm	ASTM D5185m	>20	<1	5	---
Water		WC Method	>0.1	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	>0.1	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		0	2	---
Boron	ppm	ASTM D5185m		18	15	---
Barium	ppm	ASTM D5185m		2	0	---
Molybdenum	ppm	ASTM D5185m		2	1	---
Manganese	ppm	ASTM D5185m		0	3	---
Magnesium	ppm	ASTM D5185m		6	8	---
Calcium	ppm	ASTM D5185m		10	48	---
Phosphorus	ppm	ASTM D5185m		156	402	---
Zinc	ppm	ASTM D5185m		10	85	---
Sulfur	ppm	ASTM D5185m		6966	6143	---
Acid Number (AN)	mg KOH/g	ASTM D8045		0.56	0.86	---
Visc @ 100°C	cSt	ASTM D445	24.0	34.3	45.1	---



Certificate L2367

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

Sample No. : TR05886215

Lab Number : 05886215

Unique Number : 10536698

Test Package : MOB 2 (Additional Tests: KV100)

Received : 28 Jun 2023

Tested : 06 Jul 2023

Diagnosed : 06 Jul 2023 - Jonathan Hester

MT SPOKANE SKI AAND SNOWBOARD PARK

29500 N MT SPOKANE PARK DRIVE

MEAD, WA

US 99021

Contact: RON GROGAN

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: