



TRAAP

Texas Refinery Advanced Analysis Program

# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Machine Id  
**89**  
 Component  
**Hydraulic System**  
 Fluid  
**{not provided} (20 GAL)**

## RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR0001669	TR0001185	---
Sample Date		Client Info		16 Jul 2024	21 Nov 2023	---
Machine Age	hrs	Client Info		2395	703	---
Oil Age	hrs	Client Info		2395	703	---
Filter Age	hrs	Client Info		0	703	---
Oil Changed		Client Info		Not Changd	Not Changd	---
Filter Changed		Client Info		Not Changd	Not Changd	---
Sample Status				ABNORMAL	NORMAL	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>20	8	2	---
Chromium	ppm	ASTM D5185m	>10	0	0	---
Nickel	ppm	ASTM D5185m	>10	<1	1	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m		0	<1	---
Aluminum	ppm	ASTM D5185m	>10	0	0	---
Lead	ppm	ASTM D5185m	>10	0	<1	---
Copper	ppm	ASTM D5185m	>75	8	6	---
Tin	ppm	ASTM D5185m	>10	0	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

## CONTAMINATION

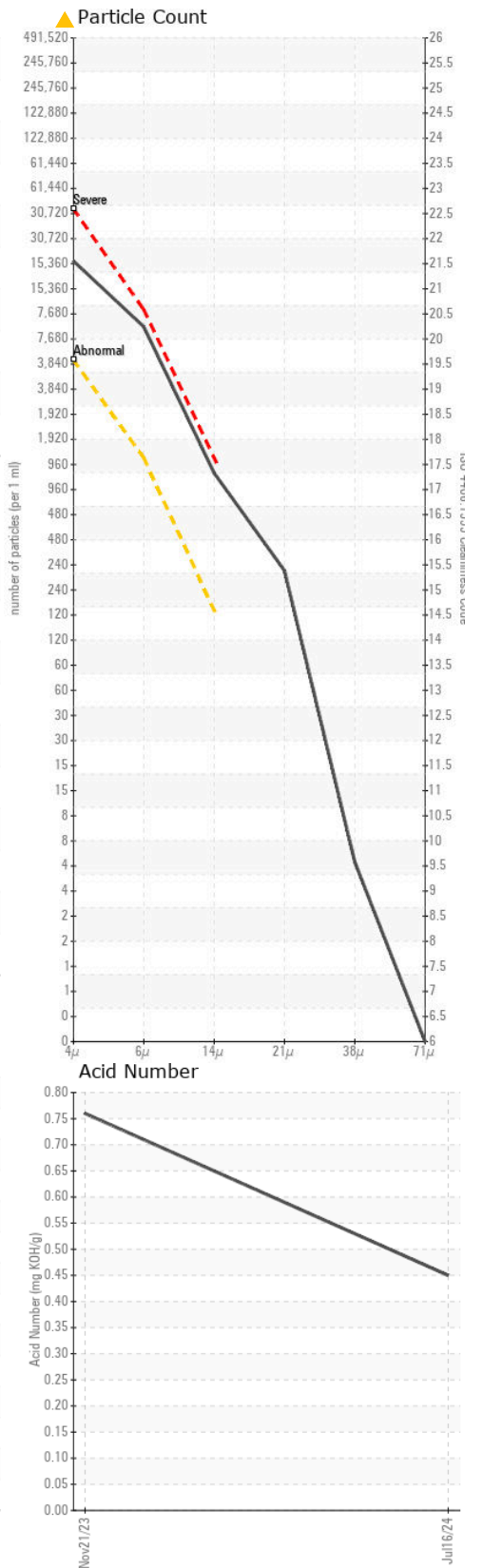
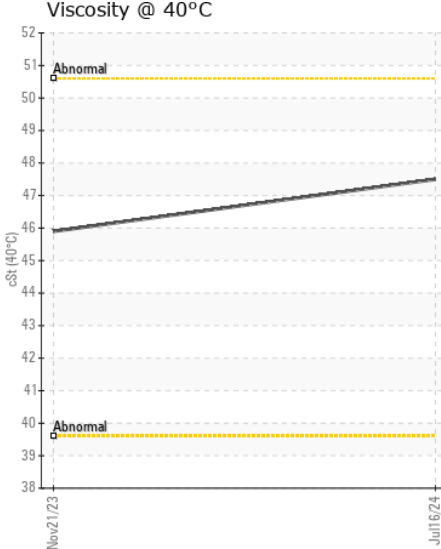
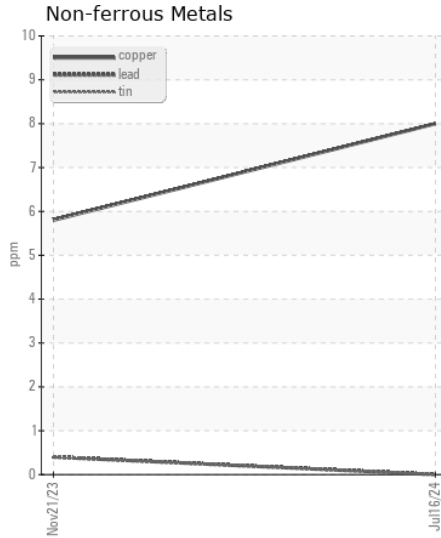
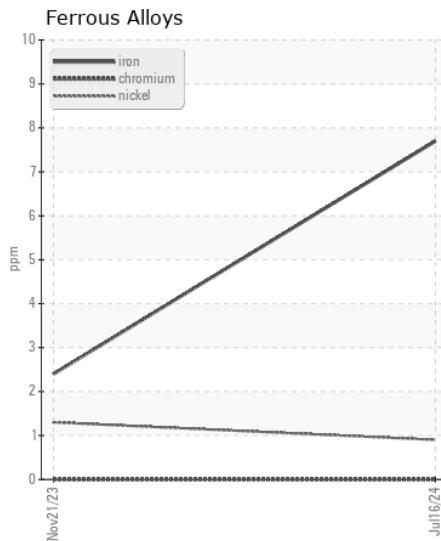
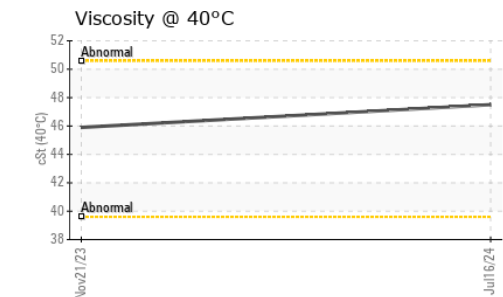
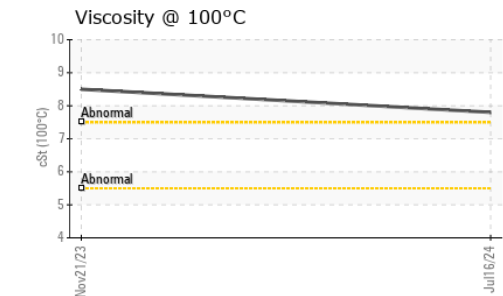
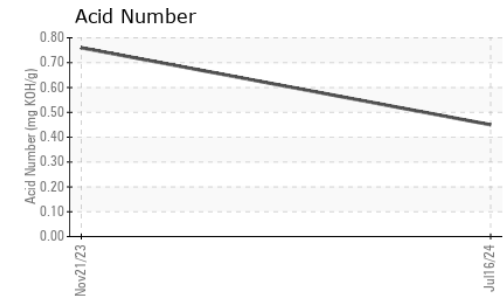
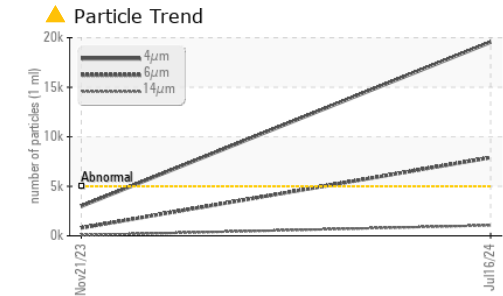
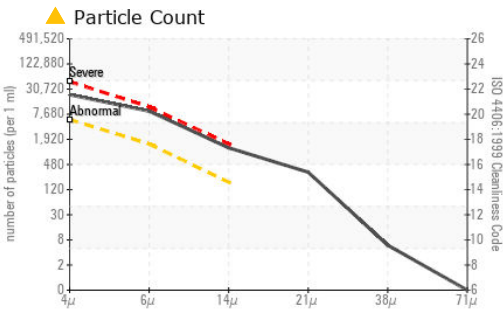
There is a high amount of particulates present in the oil.

Silicon	ppm	ASTM D5185m	>20	7	17	---
Potassium	ppm	ASTM D5185m	>20	0	2	---
Water		WC Method	>0.1	NEG	NEG	---
Particles >4µm		ASTM D7647	>5000	▲ 19548	2985	---
Particles >6µm		ASTM D7647	>1300	▲ 7903	799	---
Particles >14µm		ASTM D7647	>160	▲ 1056	63	---
Particles >21µm		ASTM D7647	>40	▲ 276	16	---
Particles >38µm		ASTM D7647	>10	5	1	---
Particles >71µm		ASTM D7647	>3	0	0	---
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 21/20/17	19/17/13	---
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 acceptable for the time in service.

Sodium	ppm	ASTM D5185m		2	1	---
Boron	ppm	ASTM D5185m		0	0	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		<1	0	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		3	2	---
Calcium	ppm	ASTM D5185m		388	96	---
Phosphorus	ppm	ASTM D5185m		522	624	---
Zinc	ppm	ASTM D5185m		643	818	---
Sulfur	ppm	ASTM D5185m		1713	1742	---
Acid Number (AN)	mg KOH/g	ASTM D8045		0.45	0.76	---
Visc @ 40°C	cSt	ASTM D445		47.5	45.9	---
Visc @ 100°C	cSt	ASTM D445		7.8	8.5	---
Viscosity Index (VI)	Scale	ASTM D2270		132	164	---



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TR0001669 **Received** : 17 Jul 2024  
**Lab Number** : 06239559 **Tested** : 18 Jul 2024  
**Unique Number** : 11128393 **Diagnosed** : 19 Jul 2024 - Don Baldrige  
**Test Package** : MOB 2 ( Additional Tests: KV100, VI )

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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)