



TRAAP

Texas Refinery Advanced Analysis Program

# OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Machine Id  
**NORD-MAIN GEAR CLARIFIER 1**  
 Component  
**Front Gearbox**  
 Fluid  
**TRC 890 VARI-PURPOSE SAE80W90 (1 GAL)**

## RECOMMENDATION

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

## WEAR

Gear wear is indicated.

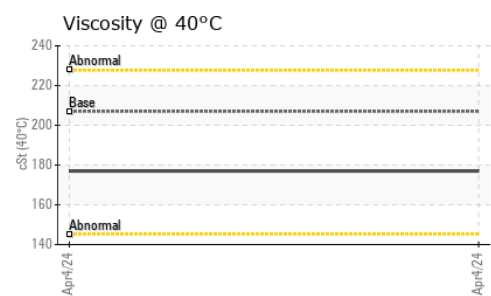
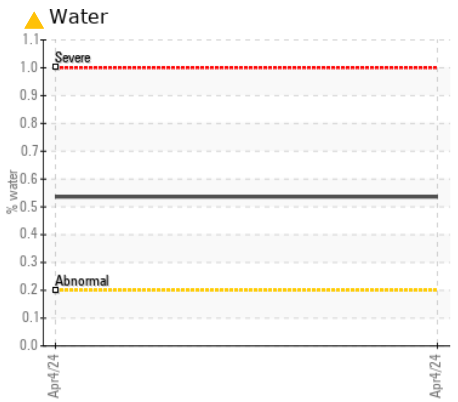
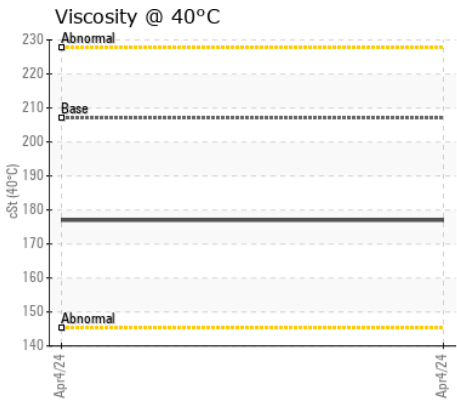
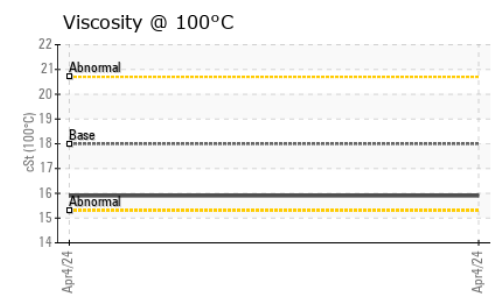
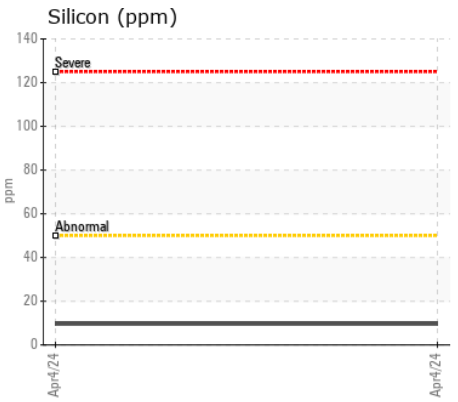
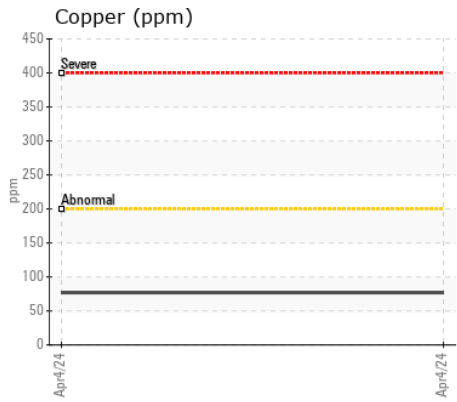
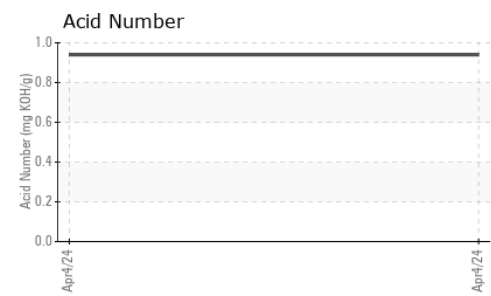
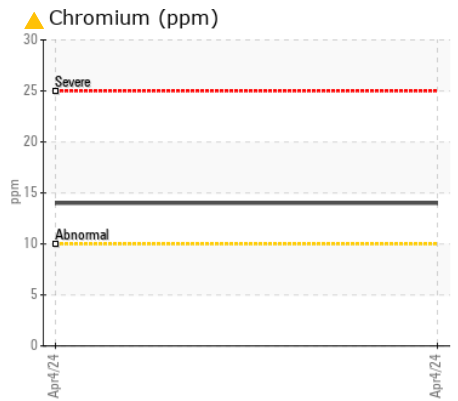
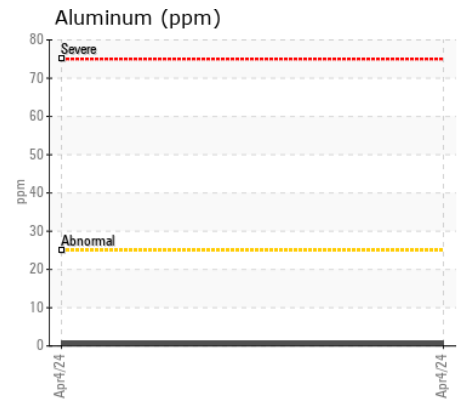
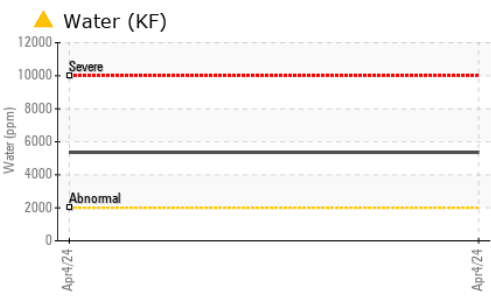
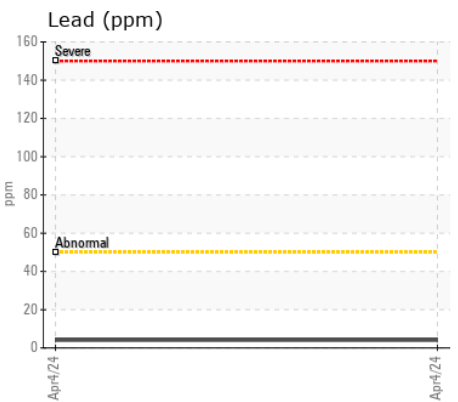
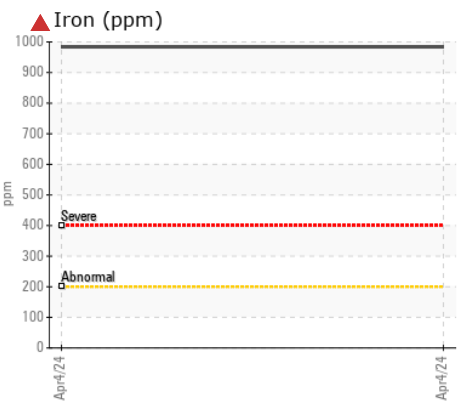
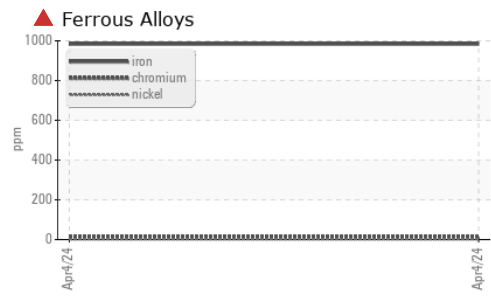
## CONTAMINATION

High concentration of visible dirt/debris present in the oil. There is a high concentration of water present in the oil. Excessive free water present.

## FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06148864	---	---
Sample Date		Client Info		04 Apr 2024	---	---
Machine Age	hrs	Client Info		27461	---	---
Oil Age	hrs	Client Info		8752	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				SEVERE	---	---
Iron	ppm	ASTM D5185m	>200	▲ 984	---	---
Chromium	ppm	ASTM D5185m	>10	▲ 14	---	---
Nickel	ppm	ASTM D5185m	>10	2	---	---
Titanium	ppm	ASTM D5185m		0	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>25	<1	---	---
Lead	ppm	ASTM D5185m	>50	4	---	---
Copper	ppm	ASTM D5185m	>200	77	---	---
Tin	ppm	ASTM D5185m	>10	3	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Silicon	ppm	ASTM D5185m	>50	10	---	---
Potassium	ppm	ASTM D5185m	>20	4	---	---
Water	%	ASTM D6304	>0.2	▲ 0.536	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 5360	---	---
Silt	scalar	*Visual	NONE	MODER	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	● HAZY	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.2	▲ 0.2%	---	---
Sodium	ppm	ASTM D5185m		2	---	---
Boron	ppm	ASTM D5185m		0	---	---
Barium	ppm	ASTM D5185m		0	---	---
Molybdenum	ppm	ASTM D5185m		<1	---	---
Manganese	ppm	ASTM D5185m		6	---	---
Magnesium	ppm	ASTM D5185m		3	---	---
Calcium	ppm	ASTM D5185m		17	---	---
Phosphorus	ppm	ASTM D5185m	1000	683	---	---
Zinc	ppm	ASTM D5185m		23	---	---
Sulfur	ppm	ASTM D5185m	17000	22475	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		0.94	---	---
Visc @ 40°C	cSt	ASTM D445	207	177	---	---
Visc @ 100°C	cSt	ASTM D445	18	15.9	---	---
Viscosity Index (VI)	Scale	ASTM D2270	98	91	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TR06148864 **Received** : 15 Apr 2024  
**Lab Number** : 06148864 **Tested** : 17 Apr 2024  
**Unique Number** : 10978942 **Diagnosed** : 17 Apr 2024 - Don Baldrige  
**Test Package** : MOB 2 ( Additional Tests: KF, KV100, VI )

**CITY OF MCHENRY - KEVIN BEGGS**  
 1415 INDUSTRIAL DR  
 MCHENRY, IL  
 US 60050  
 Contact: JERRY MORTON

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: