



TRAAP

Texas Refinery Advanced Analysis Program

# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Machine Id  
**NORD-INTERMEDIATE CLARIFIER 2**  
 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 an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06148857	---	---
Sample Date		Client Info		15 Apr 2024	---	---
Machine Age	hrs	Client Info		27508	---	---
Oil Age	hrs	Client Info		8884	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Not Changd	---	---
Filter Changed		Client Info		Not Changd	---	---
Sample Status				ABNORMAL	---	---

## WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>200	25	---	---
Chromium	ppm	ASTM D5185m	>10	0	---	---
Nickel	ppm	ASTM D5185m	>10	0	---	---
Titanium	ppm	ASTM D5185m		0	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>25	0	---	---
Lead	ppm	ASTM D5185m	>50	1	---	---
Copper	ppm	ASTM D5185m	>200	16	---	---
Tin	ppm	ASTM D5185m	>10	0	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

## CONTAMINATION

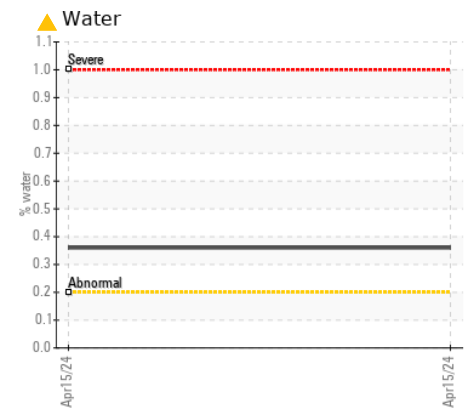
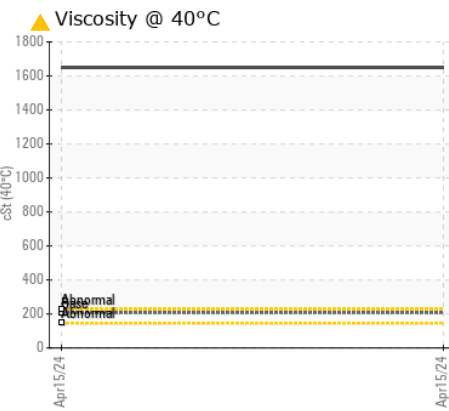
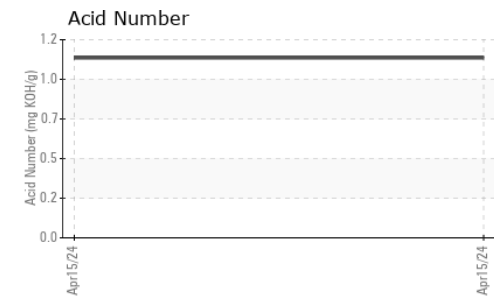
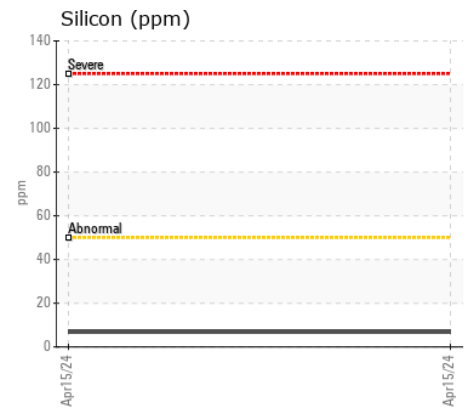
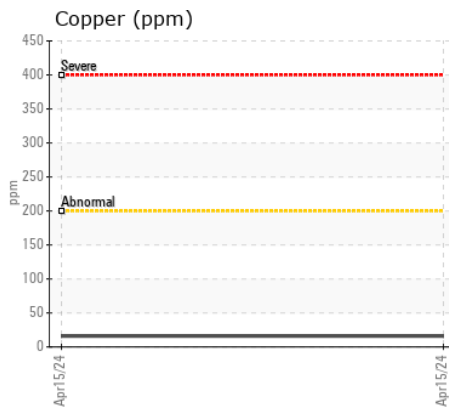
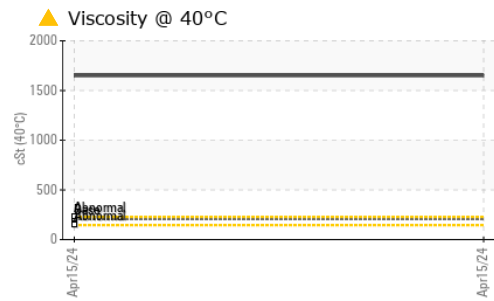
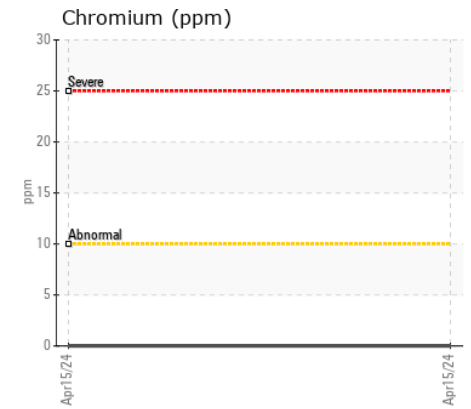
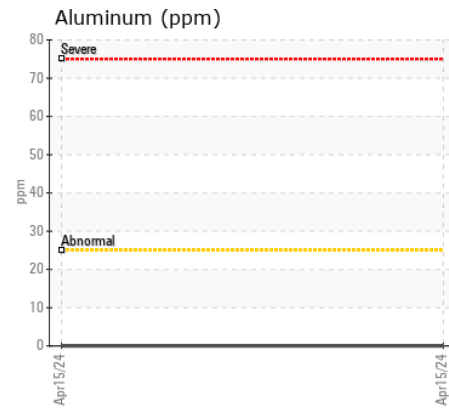
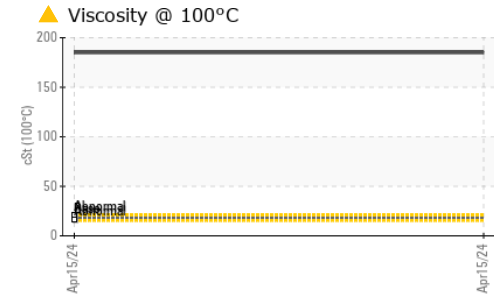
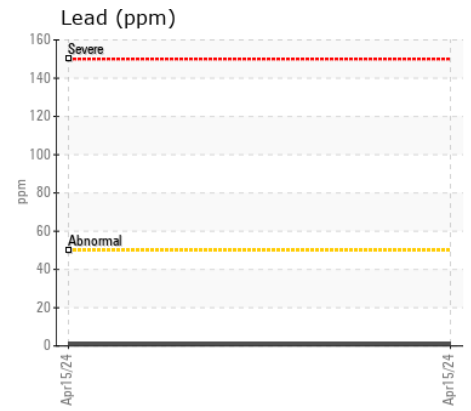
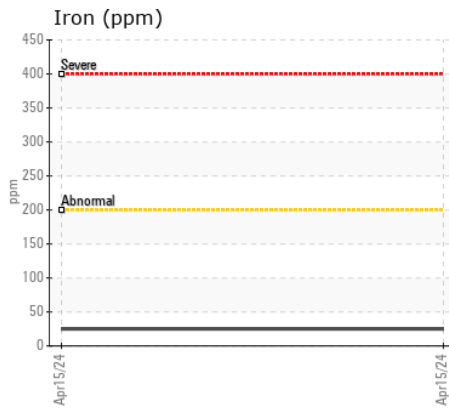
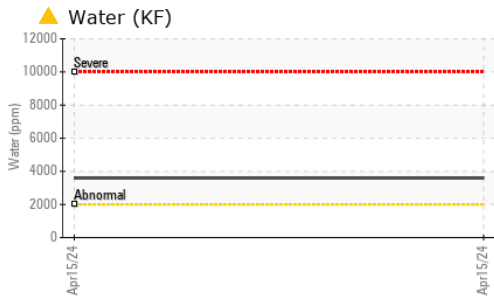
Moderate concentration of visible dirt/debris present in the oil. There is a moderate concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>50	7	---	---
Potassium	ppm	ASTM D5185m	>20	1	---	---
Water	%	ASTM D6304	>0.2	▲ 0.360	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 3600	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	▲ MODER	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.2	0.2%	---	---

## FLUID CONDITION

The oil viscosity is higher than normal. The AN level is acceptable for this fluid.

Sodium	ppm	ASTM D5185m		<1	---	---
Boron	ppm	ASTM D5185m		<1	---	---
Barium	ppm	ASTM D5185m		2	---	---
Molybdenum	ppm	ASTM D5185m		0	---	---
Manganese	ppm	ASTM D5185m		<1	---	---
Magnesium	ppm	ASTM D5185m		3	---	---
Calcium	ppm	ASTM D5185m		411	---	---
Phosphorus	ppm	ASTM D5185m	1000	730	---	---
Zinc	ppm	ASTM D5185m		84	---	---
Sulfur	ppm	ASTM D5185m	17000	21138	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		1.09	---	---
Visc @ 40°C	cSt	ASTM D445	207	▲ 1650	---	---
Visc @ 100°C	cSt	ASTM D445	18	▲ 185	---	---
Viscosity Index (VI)	Scale	ASTM D2270	98	▲ 238	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TR06148857  
**Lab Number** : 06148857  
**Unique Number** : 10978935  
**Test Package** : MOB 2 ( Additional Tests: KF, KV100, VI )

**Received** : 15 Apr 2024  
**Tested** : 19 Apr 2024  
**Diagnosed** : 19 Apr 2024 - Jonathan Hester

**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: