



TRAAP

Texas Refinery Advanced Analysis Program

OIL ANALYSIS REPORT

WEAR	SEVERE
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Machine Id
NORD-MAIN GEAR CLARIFIER 3
 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.

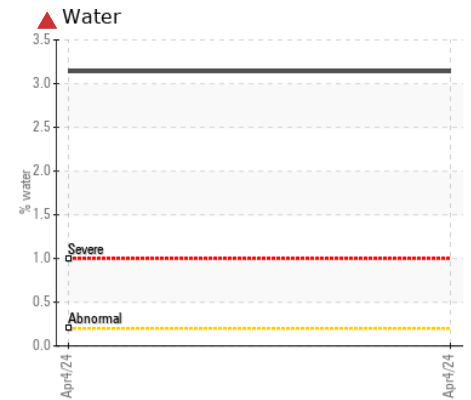
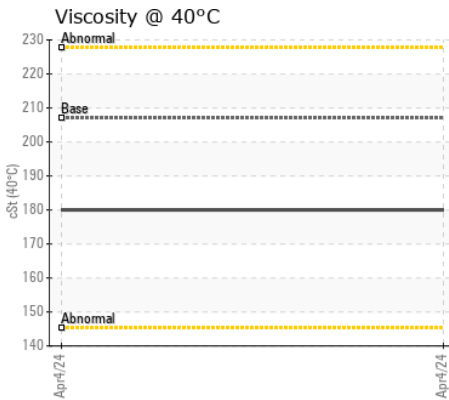
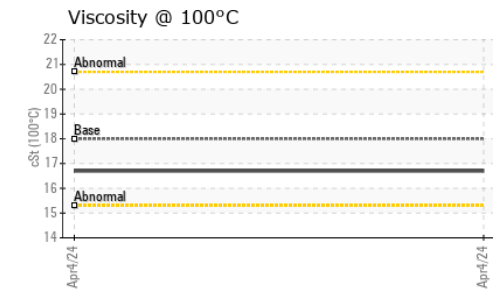
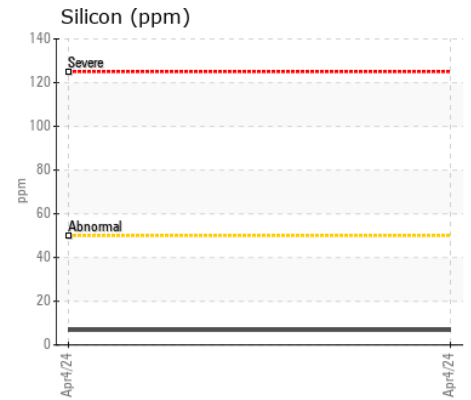
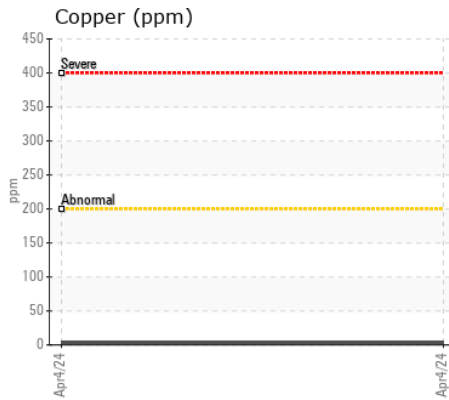
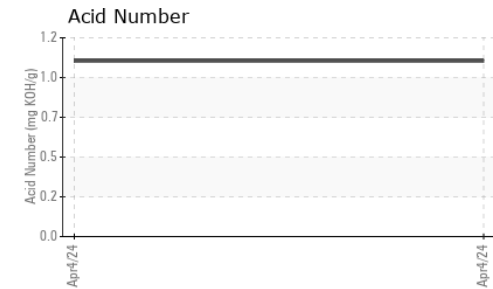
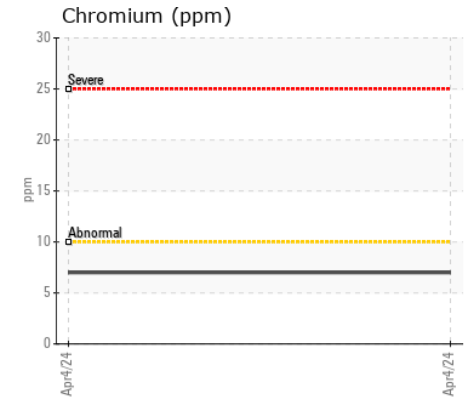
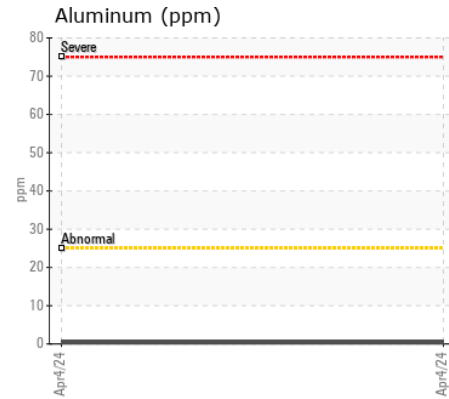
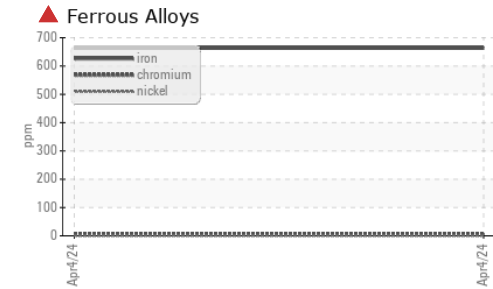
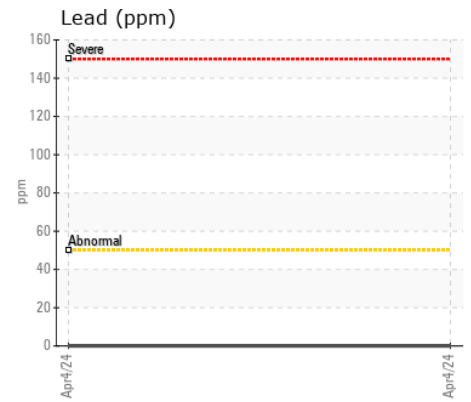
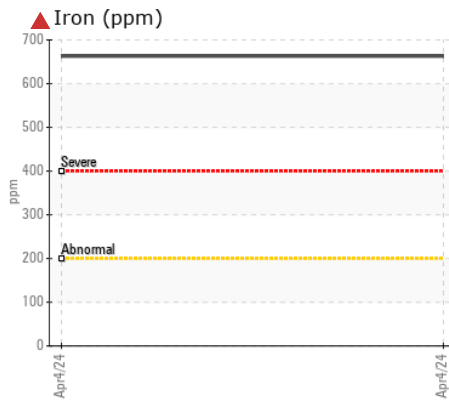
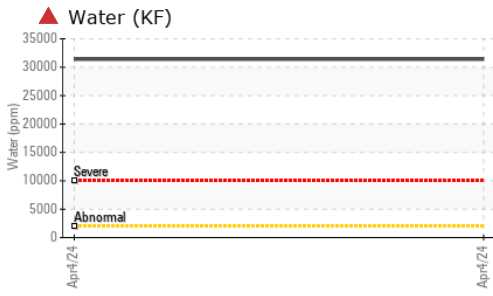
CONTAMINATION

High concentration of visible dirt/debris present in the oil. There is a high concentration of water present in the oil. 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		TR06148863	---	---
Sample Date		Client Info		04 Apr 2024	---	---
Machine Age	hrs	Client Info		28082	---	---
Oil Age	hrs	Client Info		9653	---	---
Filter Age	hrs	Client Info		0	---	---
Oil Changed		Client Info		Not Changd	---	---
Filter Changed		Client Info		Not Changd	---	---
Sample Status				SEVERE	---	---
Iron	ppm	ASTM D5185m	>200	▲ 663	---	---
Chromium	ppm	ASTM D5185m	>10	7	---	---
Nickel	ppm	ASTM D5185m	>10	<1	---	---
Titanium	ppm	ASTM D5185m		0	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>25	<1	---	---
Lead	ppm	ASTM D5185m	>50	0	---	---
Copper	ppm	ASTM D5185m	>200	4	---	---
Tin	ppm	ASTM D5185m	>10	0	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Silicon	ppm	ASTM D5185m	>50	7	---	---
Potassium	ppm	ASTM D5185m	>20	2	---	---
Water	%	ASTM D6304	>0.2	▲ 3.14	---	---
ppm Water	ppm	ASTM D6304	>2000	▲ 31400	---	---
Silt	scalar	*Visual	NONE	▲ HEAVY	---	---
Debris	scalar	*Visual	NONE	LIGHT	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.2	▲ 0.2%	---	---
Sodium	ppm	ASTM D5185m		0	---	---
Boron	ppm	ASTM D5185m		0	---	---
Barium	ppm	ASTM D5185m		0	---	---
Molybdenum	ppm	ASTM D5185m		<1	---	---
Manganese	ppm	ASTM D5185m		4	---	---
Magnesium	ppm	ASTM D5185m		2	---	---
Calcium	ppm	ASTM D5185m		16	---	---
Phosphorus	ppm	ASTM D5185m	1000	713	---	---
Zinc	ppm	ASTM D5185m		48	---	---
Sulfur	ppm	ASTM D5185m	17000	23102	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		1.06	---	---
Visc @ 40°C	cSt	ASTM D445	207	180	---	---
Visc @ 100°C	cSt	ASTM D445	18	16.7	---	---
Viscosity Index (VI)	Scale	ASTM D2270	98	97	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TR06148863
Lab Number : 06148863
Unique Number : 10978941
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: