



TRAAP

Texas Refinery Advanced Analysis Program

# OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	ABNORMAL

Machine Id  
**KUBOTA M4700 23 M4700 (S/N 60213)**

Component  
**Hydraulic System**

Fluid  
**TRC UTF RED (2 GAL)**

## RECOMMENDATION

We advise that you check for the source of water entry. We recommend that you drain the oil and perform a filter service on this component if not already done. There is too much water present in this sample to perform a particle count. Please note that there was too much water present in the oil to perform accurate viscosity tests.

## WEAR

All component wear rates are normal.

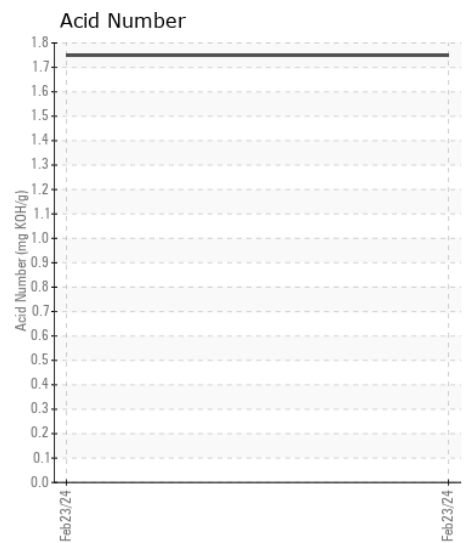
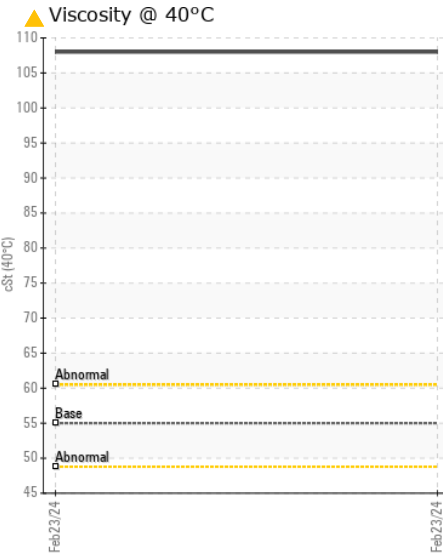
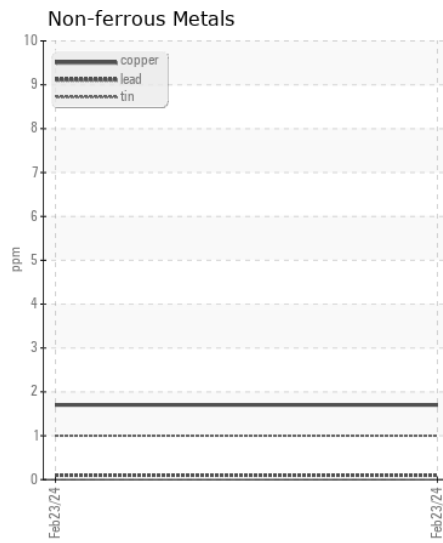
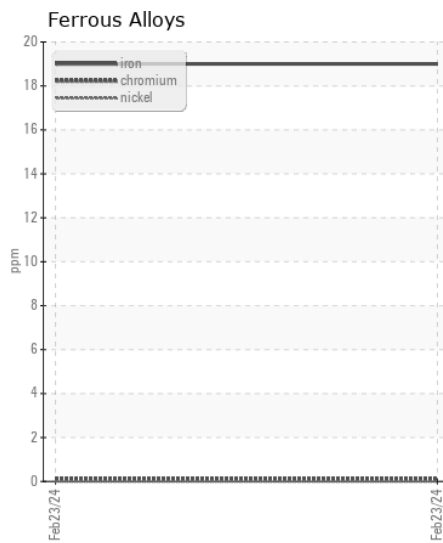
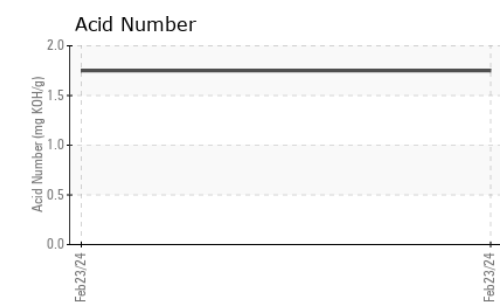
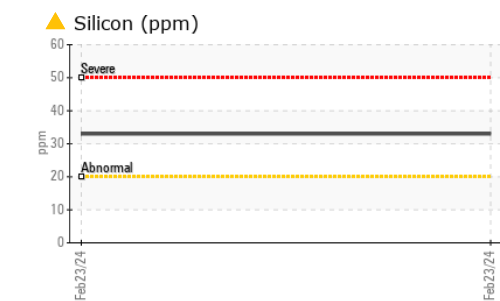
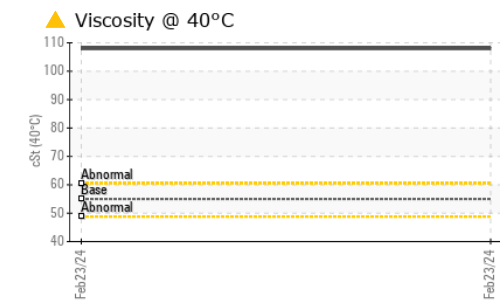
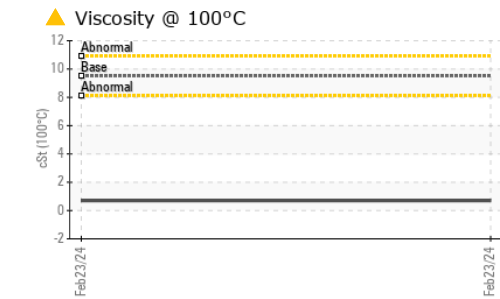
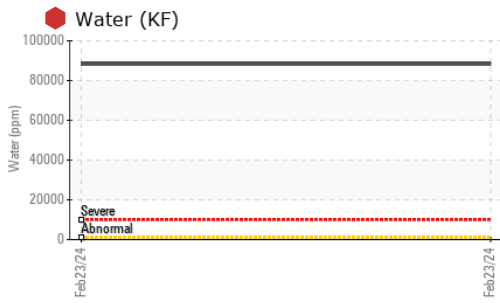
## CONTAMINATION

Elemental level of silicon (Si) above normal indicating ingress of seal material. There is a high concentration of water present in the oil.

## FLUID CONDITION

The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		TR06100890	---	---
Sample Date		Client Info		23 Feb 2024	---	---
Machine Age	hrs	Client Info		5000	---	---
Oil Age	hrs	Client Info		125	---	---
Filter Age	hrs	Client Info		125	---	---
Oil Changed		Client Info		N/A	---	---
Filter Changed		Client Info		N/A	---	---
Sample Status				SEVERE	---	---
Iron	ppm	ASTM D5185m	>20	19	---	---
Chromium	ppm	ASTM D5185m	>10	<1	---	---
Nickel	ppm	ASTM D5185m	>10	0	---	---
Titanium	ppm	ASTM D5185m		<1	---	---
Silver	ppm	ASTM D5185m		0	---	---
Aluminum	ppm	ASTM D5185m	>10	5	---	---
Lead	ppm	ASTM D5185m	>10	<1	---	---
Copper	ppm	ASTM D5185m	>75	2	---	---
Tin	ppm	ASTM D5185m	>10	1	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Silicon	ppm	ASTM D5185m	>20	▲ 33	---	---
Potassium	ppm	ASTM D5185m	>20	6	---	---
Water	%	ASTM D6304	>0.1	● 8.83	---	---
ppm Water	ppm	ASTM D6304	>1000	● 88300	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	▲ MILKY	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.1	● 0.2%	---	---
Sodium	ppm	ASTM D5185m		16	---	---
Boron	ppm	ASTM D5185m		255	---	---
Barium	ppm	ASTM D5185m		8	---	---
Molybdenum	ppm	ASTM D5185m		0	---	---
Manganese	ppm	ASTM D5185m		0	---	---
Magnesium	ppm	ASTM D5185m		25	---	---
Calcium	ppm	ASTM D5185m	4200	6215	---	---
Phosphorus	ppm	ASTM D5185m	1100	1921	---	---
Zinc	ppm	ASTM D5185m	2000	2614	---	---
Sulfur	ppm	ASTM D5185m		6560	---	---
Acid Number (AN)	mg KOH/g	ASTM D8045		1.75	---	---
Visc @ 40°C	cSt	ASTM D445	55	▲ 108	---	---
Visc @ 100°C	cSt	ASTM D445	9.5	▲ 0.7	---	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TR06100890 **Received** : 26 Feb 2024  
**Lab Number** : 06100890 **Tested** : 28 Feb 2024  
**Unique Number** : 10899120 **Diagnosed** : 28 Feb 2024 - Doug Bogart  
**Test Package** : MOB 2 ( Additional Tests: KF, KV100, VI )

**CERBAT GOLF CITY OF KINGMAN**  
 4196 E STAMPEDE RD  
 KINGMAN, AZ  
 US 86401  
 Contact: STUART THENKELSON

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: