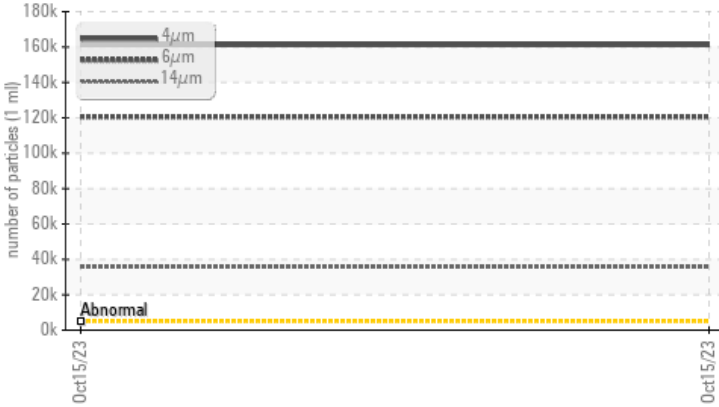


Machine Id  
**GIBALRALTER 200 - KOCH FERT**  
 Component  
**New (Unused) Oil**  
 Fluid  
**{not provided} (--- QTS)**



## COMPONENT CONDITION SUMMARY

### ▲ Particle Trend



## RECOMMENDATION

This is a baseline read-out on the submitted sample.

## PROBLEMATIC TEST RESULTS

Sample Status			<b>ABNORMAL</b>	---	---
Particles >4µm	ASTM D7647	>5000	▲ <b>161203</b>	---	---
Particles >6µm	ASTM D7647	>1300	▲ <b>120544</b>	---	---
Particles >14µm	ASTM D7647	>160	▲ <b>35636</b>	---	---
Particles >21µm	ASTM D7647	>40	▲ <b>13090</b>	---	---
Particles >38µm	ASTM D7647	>10	▲ <b>990</b>	---	---
Particles >71µm	ASTM D7647	>3	▲ <b>39</b>	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ <b>25/24/22</b>	---	---

**Customer Id:** UCTULTUL  
**Sample No.:** TO10002643  
**Lab Number:** 05980066  
**Test Package:** IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Jonathan Hester +1 919-379-4092 x4092  
[jhester@wearcheckusa.com](mailto:jhester@wearcheckusa.com)

To change component or sample information:  
 Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS



Machine Id  
**GIBALRALTER 200 - KOCH FERT**  
 Component  
**New (Unused) Oil**  
 Fluid  
**{not provided} (--- QTS)**

**DIAGNOSIS**

- Recommendation**  
This is a baseline read-out on the submitted sample.
- Contamination**  
There is a high amount of particulates present in the oil.

**SAMPLE INFORMATION**

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>TO10002643</b>	---	---
Sample Date	Client Info	<b>15 Oct 2023</b>	---	---
Machine Age	hrs Client Info	<b>0</b>	---	---
Oil Age	hrs Client Info	<b>0</b>	---	---
Oil Changed	Client Info	<b>N/A</b>	---	---
Sample Status		<b>ABNORMAL</b>	---	---

**WEAR METALS**

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >5	<b>0</b>	---	---
Chromium	ppm ASTM D5185m >5	<b>0</b>	---	---
Nickel	ppm ASTM D5185m >5	<b>0</b>	---	---
Titanium	ppm ASTM D5185m	<b>0</b>	---	---
Silver	ppm ASTM D5185m >5	<b>0</b>	---	---
Aluminum	ppm ASTM D5185m >5	<b>0</b>	---	---
Lead	ppm ASTM D5185m >5	<b>0</b>	---	---
Copper	ppm ASTM D5185m >5	<b>&lt;1</b>	---	---
Tin	ppm ASTM D5185m >5	<b>0</b>	---	---
Vanadium	ppm ASTM D5185m	<b>0</b>	---	---
Cadmium	ppm ASTM D5185m	<b>0</b>	---	---

**ADDITIVES**

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	<b>0</b>	---	---
Barium	ppm ASTM D5185m	<b>1022</b>	---	---
Molybdenum	ppm ASTM D5185m	<b>0</b>	---	---
Manganese	ppm ASTM D5185m	<b>0</b>	---	---
Magnesium	ppm ASTM D5185m	<b>0</b>	---	---
Calcium	ppm ASTM D5185m	<b>0</b>	---	---
Phosphorus	ppm ASTM D5185m	<b>0</b>	---	---
Zinc	ppm ASTM D5185m	<b>0</b>	---	---
Sulfur	ppm ASTM D5185m	<b>556</b>	---	---

**CONTAMINANTS**

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >15	<b>0</b>	---	---
Sodium	ppm ASTM D5185m	<b>3</b>	---	---
Potassium	ppm ASTM D5185m >20	<b>&lt;1</b>	---	---
Water	% ASTM D6304	<b>0.018</b>	---	---
ppm Water	ppm ASTM D6304	<b>188.1</b>	---	---

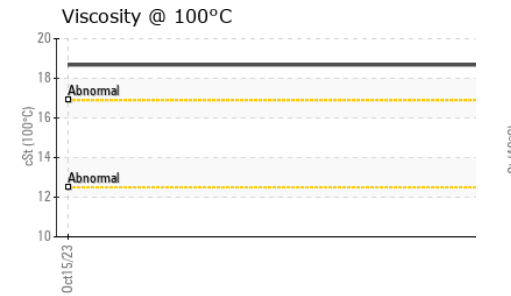
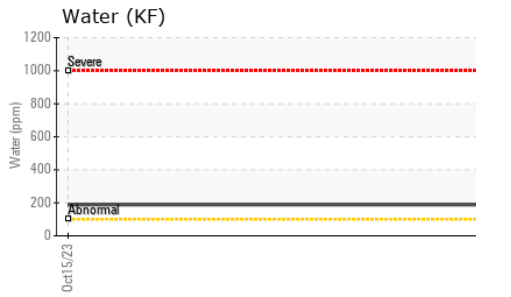
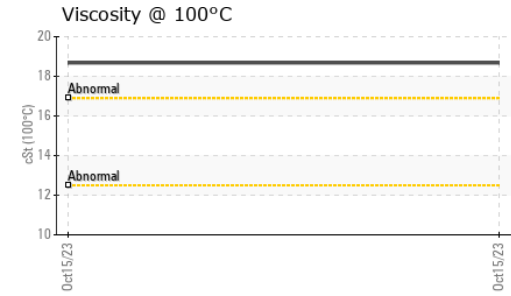
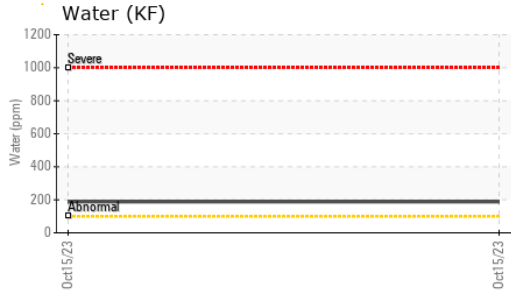
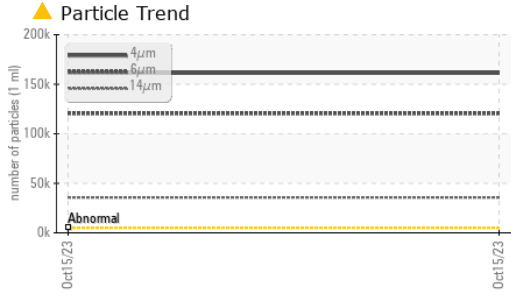
**FLUID CLEANLINESS**

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	<b>▲ 161203</b>	---	---
Particles >6µm	ASTM D7647 >1300	<b>▲ 120544</b>	---	---
Particles >14µm	ASTM D7647 >160	<b>▲ 35636</b>	---	---
Particles >21µm	ASTM D7647 >40	<b>▲ 13090</b>	---	---
Particles >38µm	ASTM D7647 >10	<b>▲ 990</b>	---	---
Particles >71µm	ASTM D7647 >3	<b>▲ 39</b>	---	---
Oil Cleanliness	ISO 4406 (c) >19/17/14	<b>▲ 25/24/22</b>	---	---

**FLUID DEGRADATION**

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045	<b>0.76</b>	---	---

# OIL ANALYSIS REPORT

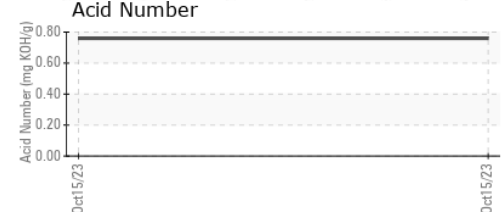
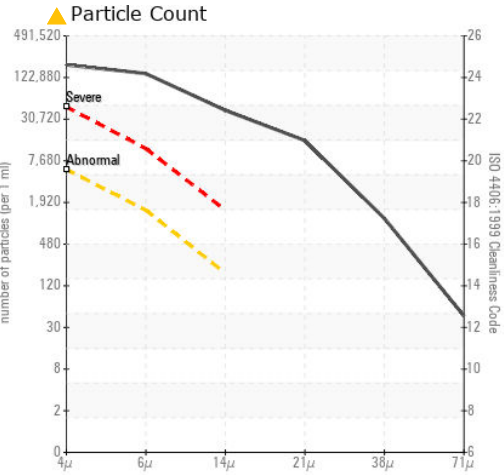
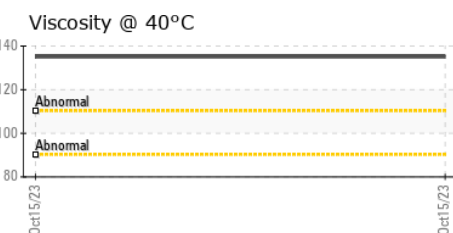
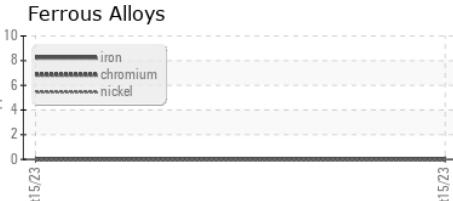


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	NEG	---	---
Free Water	scalar	*Visual	NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	135.1	---	---
Visc @ 100°C	cSt	ASTM D445	18.68	---	---
Viscosity Index (VI)	Scale	ASTM D2270	156	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO10002643 **Received** : 16 Oct 2023  
**Lab Number** : 05980066 **Diagnosed** : 18 Oct 2023  
**Unique Number** : 10697361 **Diagnostician** : Jonathan Hester  
**Test Package** : IND 2 ( Additional Tests: FT-IR, ICP-NewOil, KF, KV100, PrtCount, VI )

**TULCO OILS INC (001-TULSA DIVISION)**  
 5240 EAST PINE  
 TULSA, OK  
 US 74115  
 Contact: DYLAN COPE  
 dylancope@tulco.com  
 T: (800)375-2347  
 F: x:

To discuss this sample report, contact Customer Service at 1-800-237-1369.  
 \* - 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)