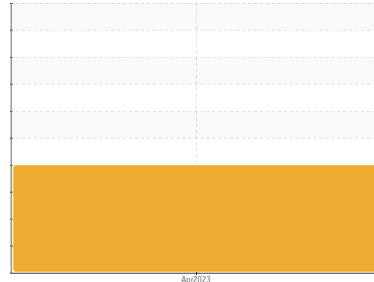




# OIL ANALYSIS REPORT

Sample Rating Trend



**WATER**



Machine Id  
**LAND B LT2E2**

Component  
**Hydraulic System**

Fluid  
**PHILLIPS 66 SPINDLE OIL 10 (55 GAL)**

## DIAGNOSIS

### ▲ Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. Please submit a sample of the new (unused) QUAKERAL 350 oil to establish a baseline.

### ▲ Wear

The copper level is abnormal. All other component wear rates are normal.

### ▲ Contamination

Appearance is unacceptable There is a high concentration of water present in the oil. There is a moderate amount of visible silt present in the sample.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>KFS0003404</b>	---	---
Sample Date	Client Info		<b>05 Apr 2023</b>	---	---
Machine Age	wks	Client Info	<b>0</b>	---	---
Oil Age	wks	Client Info	<b>1</b>	---	---
Oil Changed	Client Info		<b>Changed</b>	---	---
Sample Status			<b>ABNORMAL</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<b>13</b>	---
Chromium	ppm	ASTM D5185m	>20	<b>0</b>	---
Nickel	ppm	ASTM D5185m	>20	<b>1</b>	---
Titanium	ppm	ASTM D5185m		<b>0</b>	---
Silver	ppm	ASTM D5185m		<b>0</b>	---
Aluminum	ppm	ASTM D5185m	>20	<b>0</b>	---
Lead	ppm	ASTM D5185m	>20	<b>4</b>	---
Copper	ppm	ASTM D5185m	>20	<b>▲ 52</b>	---
Tin	ppm	ASTM D5185m	>20	<b>1</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>16</b>	---
Barium	ppm	ASTM D5185m		<b>1</b>	---
Molybdenum	ppm	ASTM D5185m		<b>0</b>	---
Manganese	ppm	ASTM D5185m		<b>4</b>	---
Magnesium	ppm	ASTM D5185m		<b>0</b>	---
Calcium	ppm	ASTM D5185m		<b>5</b>	---
Phosphorus	ppm	ASTM D5185m		<b>391</b>	---
Zinc	ppm	ASTM D5185m		<b>16</b>	---
Sulfur	ppm	ASTM D5185m		<b>74</b>	---

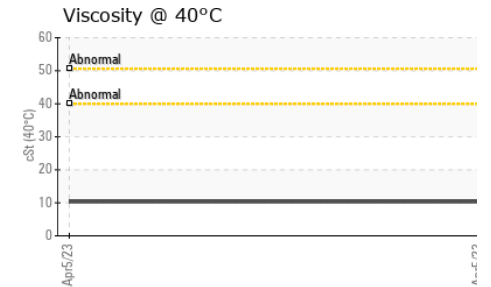
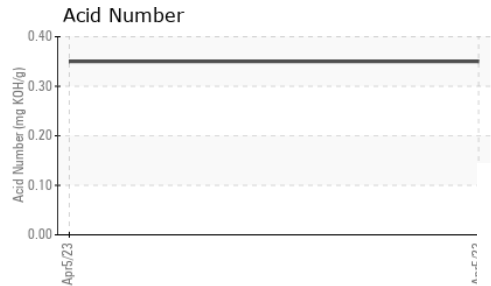
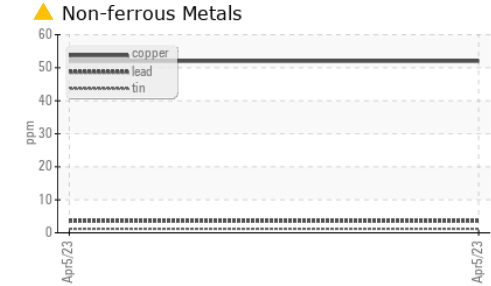
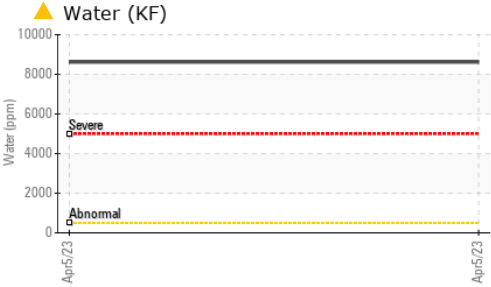
## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<b>2</b>	---
Sodium	ppm	ASTM D5185m		<b>14</b>	---
Potassium	ppm	ASTM D5185m	>20	<b>&lt;1</b>	---
Water	%	ASTM D6304	>0.05	<b>▲ 0.862</b>	---
ppm Water	ppm	ASTM D6304	>500	<b>▲ 8620</b>	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.35</b>	---

# OIL ANALYSIS REPORT



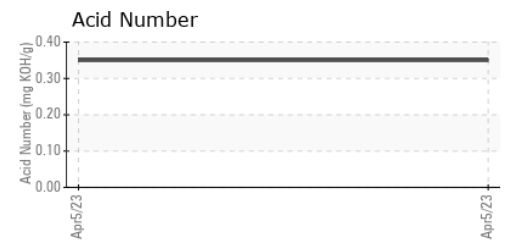
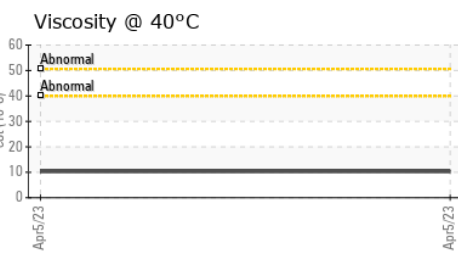
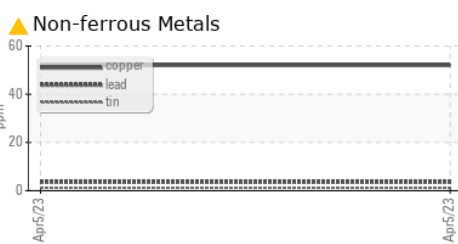
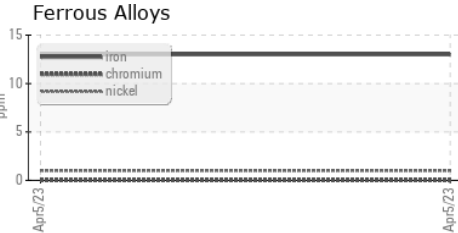
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	▲ MODER	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	● MILKY	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.05	▲ 0.2%	---	---
Free Water	scalar	*Visual		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	10.3	---	---

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

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KFS0003404      **Received** : 10 Apr 2023  
**Lab Number** : 05815323      **Tested** : 13 Apr 2023  
**Unique Number** : 10418115      **Diagnosed** : 13 Apr 2023 - Angela Borella  
**Test Package** : IND 2 ( Additional Tests: KF )

**KIMBRO OIL COMPANY**  
 2200 CLIFTON AVE  
 NASHVILLE, TN  
 US 37203  
 Contact: CHRIS HIGGINS  
 chiggins@kimbrooil.com  
 T: (270)305-1347  
 F:

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)