

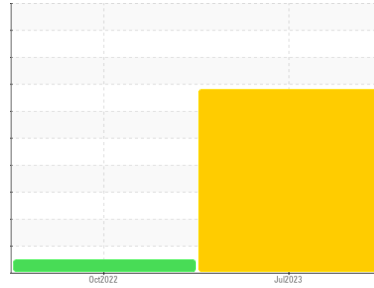


# PROBLEM SUMMARY



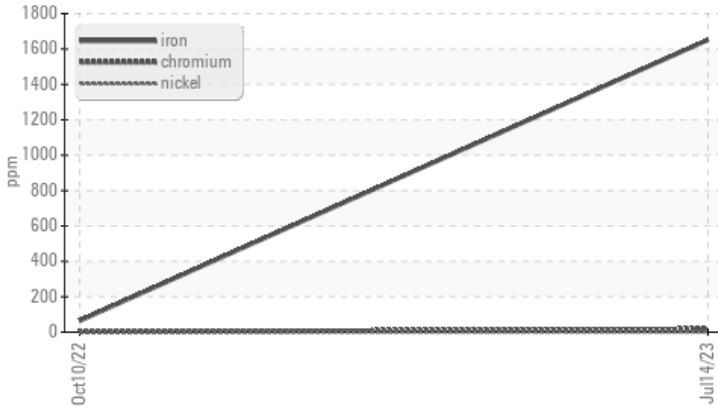
Area  
**CONSTRUCTORS, INC**  
 Machine Id  
**CATERPILLAR 1717**  
 Component  
**Right Auger Pump Drive**  
 Fluid  
**MOBIL MOBILUBE HD 85W140 (--- GAL)**

Sample Rating Trend



## COMPONENT CONDITION SUMMARY

### Ferrous Alloys



## RECOMMENDATION

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.

## PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	NORMAL	---
Iron	ppm	ASTM D5185m	>200	1652	64	---
Chromium	ppm	ASTM D5185m	>10	18	<1	---

Customer Id: CONLINNE  
 Sample No.: SBP0004545  
 Lab Number: 05900825  
 Test Package: FLEET



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Doug Bogart +1 (800)237-1369 x4016  
[dougb@wearcheckusa.com](mailto:dougb@wearcheckusa.com)

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

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
Change Fluid	---	---	?	We recommend that you drain the oil from the component if this has not already been done.
Resample	---	---	?	We recommend an early resample to monitor this condition.

## HISTORICAL DIAGNOSIS

10 Oct 2022 Diag: Don Baldrige

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report



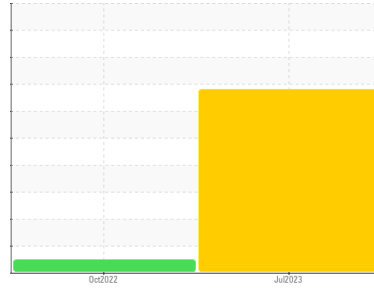


# OIL ANALYSIS REPORT



Area  
**CONSTRUCTORS, INC**  
 Machine Id  
**CATERPILLAR 1717**  
 Component  
**Right Auger Pump Drive**  
 Fluid  
**MOBIL MOBILUBE HD 85W140 (--- GAL)**

## Sample Rating Trend



**WEAR**



### DIAGNOSIS

#### Recommendation

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

There is no indication of any contamination in the oil.

#### Fluid Condition

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>SBP0004545</b>	SBP0002063	---
Sample Date	Client Info		<b>14 Jul 2023</b>	10 Oct 2022	---
Machine Age	hrs	Client Info	<b>8806</b>	7957	---
Oil Age	hrs	Client Info	<b>849</b>	624	---
Oil Changed	Client Info		<b>N/A</b>	Changed	---
Sample Status			<b>SEVERE</b>	NORMAL	---

### WEAR METALS

	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>200	<b>1652</b>	64	---
Chromium	ppm	ASTM D5185m	>10	<b>18</b>	<1	---
Nickel	ppm	ASTM D5185m	>10	<b>1</b>	0	---
Titanium	ppm	ASTM D5185m		<b>0</b>	0	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m		<b>3</b>	<1	---
Lead	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
Copper	ppm	ASTM D5185m		<b>2</b>	<1	---
Tin	ppm	ASTM D5185m		<b>0</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	<1	---

### ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		<b>203</b>	227	---
Barium	ppm	ASTM D5185m		<b>0</b>	2	---
Molybdenum	ppm	ASTM D5185m		<b>4</b>	1	---
Manganese	ppm	ASTM D5185m		<b>13</b>	1	---
Magnesium	ppm	ASTM D5185m		<b>2</b>	2	---
Calcium	ppm	ASTM D5185m		<b>65</b>	8	---
Phosphorus	ppm	ASTM D5185m		<b>1029</b>	953	---
Zinc	ppm	ASTM D5185m		<b>41</b>	13	---
Sulfur	ppm	ASTM D5185m		<b>30966</b>	20748	---

### CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m		<b>15</b>	6	---
Sodium	ppm	ASTM D5185m		<b>0</b>	0	---
Potassium	ppm	ASTM D5185m	>20	<b>1</b>	3	---

### VISUAL

	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>0.2	<b>NEG</b>	NEG	---
Free Water	scalar	*Visual		<b>NEG</b>	NEG	---

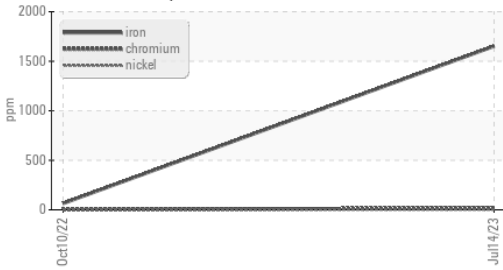
### FLUID PROPERTIES

	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	328	<b>348</b>	296	---



# OIL ANALYSIS REPORT

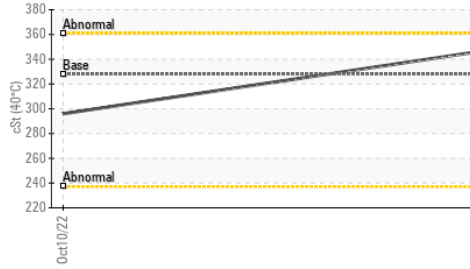
### Ferrous Alloys



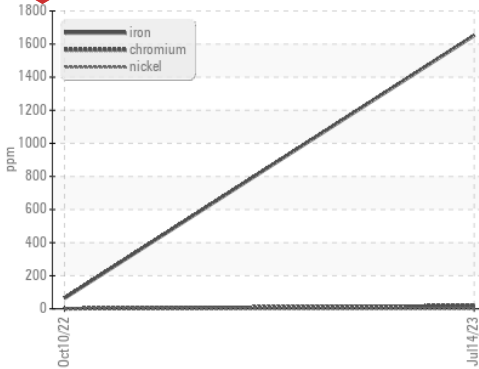
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			no image	no image	no image
Bottom			no image	no image	no image

### GRAPHS

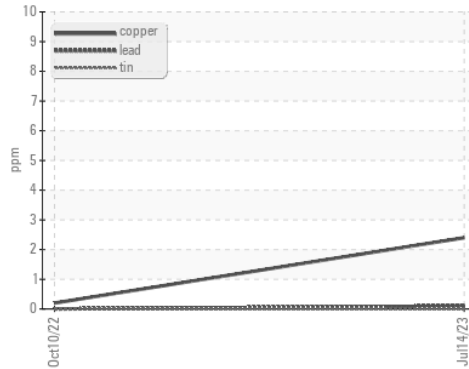
### Viscosity @ 40°C



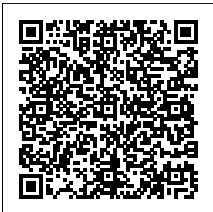
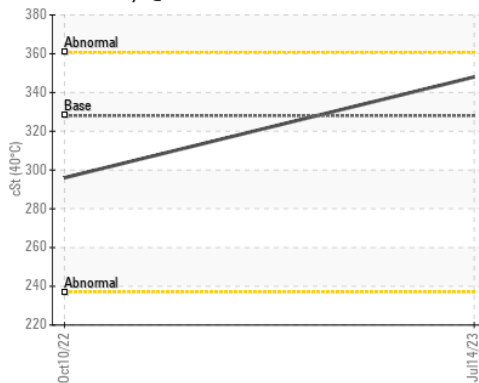
### Ferrous Alloys



### Non-ferrous Metals



### Viscosity @ 40°C



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : SBP0004545 **Received** : 17 Jul 2023  
**Lab Number** : 05900825 **Diagnosed** : 19 Jul 2023  
**Unique Number** : 10562181 **Diagnostician** : Doug Bogart  
**Test Package** : FLEET

**Constructors Inc. - 603659**  
 1815 Y Street  
 Lincoln, NE  
 US 68508

Contact: Jack Linhart  
 jackl@constructorslincoln.com  
 T: (402)434-2157  
 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)