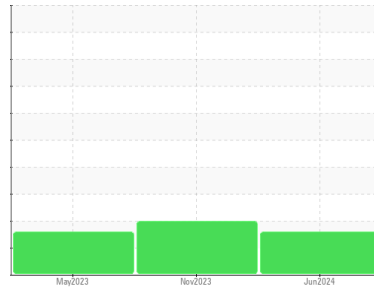




# OIL ANALYSIS REPORT

Sample Rating Trend



## VISCOSITY



Area

**HOTLINE/120 MILL**

Machine Id

**#2 PINCH ROLL REDUCER TOP 1415-004-0080 TOP**

Component

**Top Gearbox**

Fluid

**CITGO COMPOUND EP 320 (12 GAL)**

### DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

#### Fluid Condition

Viscosity of sample indicates oil is within ISO 460 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

### SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>KFS0004452</b>	KFS0004815	KFS0003345
Sample Date	Client Info	<b>19 Jun 2024</b>	10 Nov 2023	31 May 2023
Machine Age	hrs	<b>0</b>	0	0
Oil Age	hrs	<b>0</b>	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

### CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.2	<b>NEG</b>	NEG	NEG

### WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >200	<b>107</b>	19	120
Chromium	ppm	ASTM D5185m >15	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m >15	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >25	<b>4</b>	1	4
Lead	ppm	ASTM D5185m >100	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >200	<b>0</b>	6	<1
Tin	ppm	ASTM D5185m >25	<b>1</b>	0	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

### ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	1
Magnesium	ppm	ASTM D5185m	<b>&lt;1</b>	2	0
Calcium	ppm	ASTM D5185m	<b>4</b>	7	4
Phosphorus	ppm	ASTM D5185m	<b>101</b>	115	106
Zinc	ppm	ASTM D5185m	<b>0</b>	9	0
Sulfur	ppm	ASTM D5185m	<b>8233</b>	5237	8280

### CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >50	<b>1</b>	2	2
Sodium	ppm	ASTM D5185m	<b>6</b>	<1	6
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	2	<1

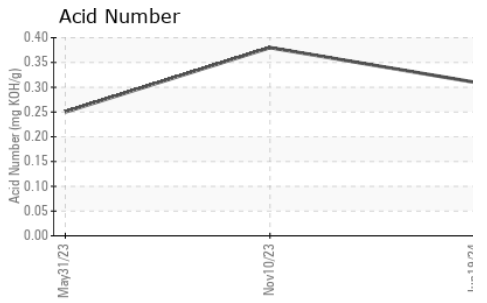
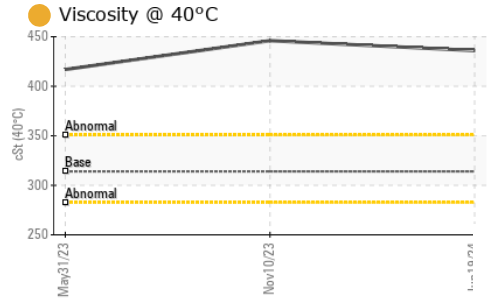
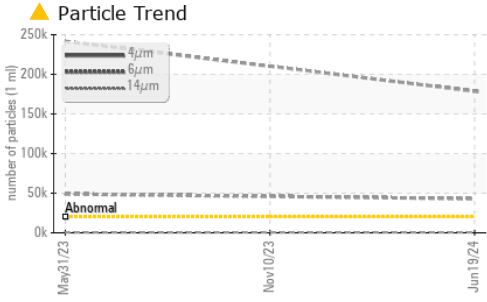
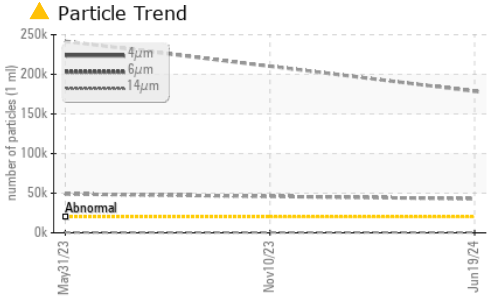
### FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >20000	<b>▲ 178676</b>	---	▲ 241683
Particles >6µm	ASTM D7647 >5000	<b>▲ 42949</b>	---	▲ 48959
Particles >14µm	ASTM D7647 >640	<b>518</b>	---	371
Particles >21µm	ASTM D7647 >160	<b>155</b>	---	94
Particles >38µm	ASTM D7647 >40	<b>14</b>	---	12
Particles >71µm	ASTM D7647 >10	<b>2</b>	---	2
Oil Cleanliness	ISO 4406 (c) >21/19/16	<b>▲ 25/23/16</b>	---	▲ 25/23/16

### FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.31</b>	0.38	0.25

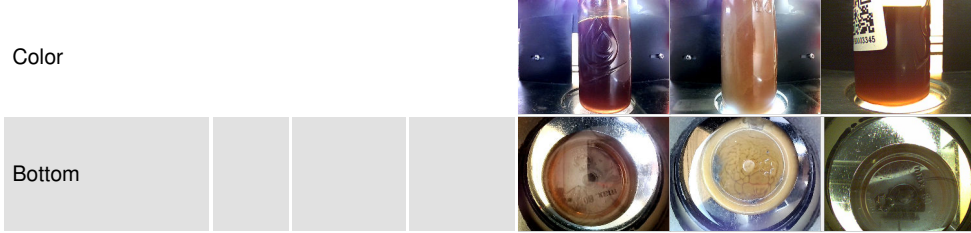
# OIL ANALYSIS REPORT



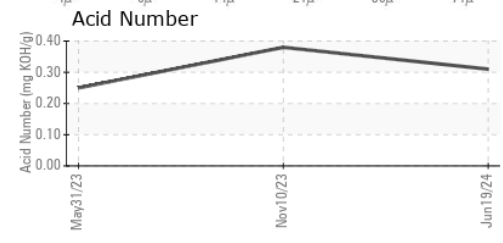
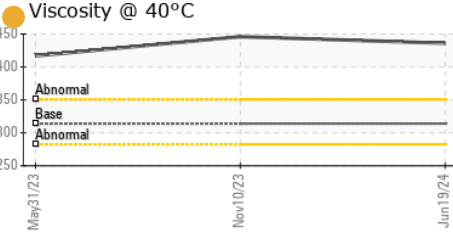
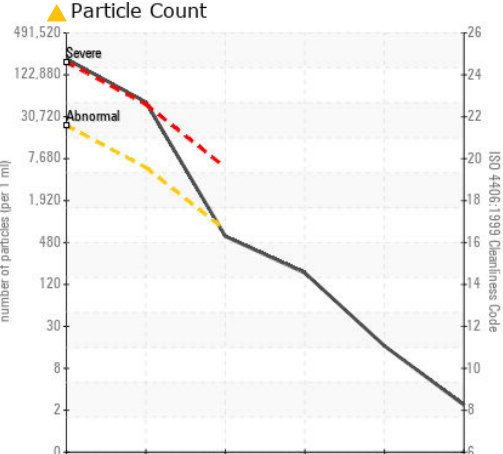
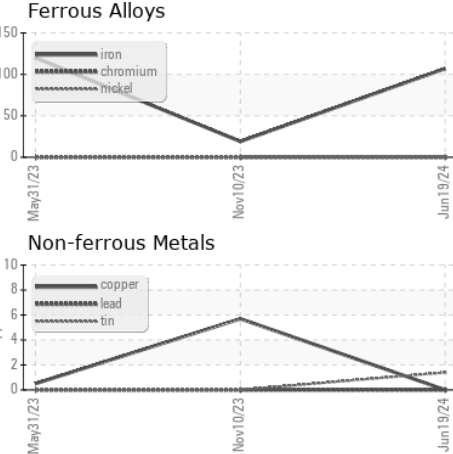
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	<b>LIGHT</b>	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 314	● <b>436</b>	● 446	● 416.9

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : KFS0004452      **Received** : 25 Jun 2024  
**Lab Number** : **06219651**      **Tested** : 26 Jun 2024  
**Unique Number** : 11097848      **Diagnosed** : 26 Jun 2024 - Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: PrtCount )

**CONSTELLIUM**  
 4805 SECOND STREET  
 MUSCLE SHOALS, AL  
 US 35661  
 Contact: Joel Even  
 joel.even@constellium.com  
 T: (256)740-7490  
 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)