

### **PROBLEM SUMMARY**

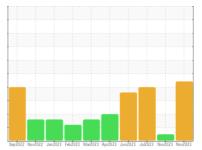
### Sample Rating Trend

## **WATER**

## HOTLINE/120 MILL **120 MAIN DRIVE PINION 1415-014-1190**

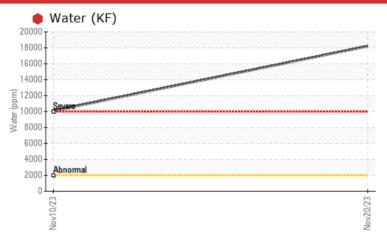
Component Gearbox

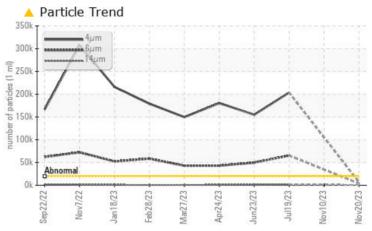
CITGO EP COMPOUND ISO 800 (5000 GAL)





### COMPONENT CONDITION SUMMARY





### **RECOMMENDATION**

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS								
Sample Status				SEVERE		SEVERE		
Water	%	ASTM D6304	>0.2	<b>1.82</b>	1.01			
ppm Water	ppm	ASTM D6304	>2000	<b>18200</b>	10100			
Particles >14µm		ASTM D7647	>640	<b>654</b>		<u>▲</u> 1538		
Particles >21µm		ASTM D7647	>160	<b>220</b>		177		
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u>^</u> 20/19/17		<b>25/23/18</b>		
<b>Emulsified Water</b>	scalar	*Visual	>0.2	<b>0.2%</b>	0.2%	NEG		

Customer Id: CONMUSAL Sample No.: KFS0005202 Lab Number: 06015769 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 ihester@wearcheckusa.com

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

RECOMMENDED ACTIONS						
Action	Status	Date	Done By	Description		
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.		
Check Water Access			?	We advise that you check for the source of water entry.		

### HISTORICAL DIAGNOSIS

### 10 Nov 2023 Diag:







### 19 Jul 2023 Diag: Wes Davis



Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

#### 23 Jun 2023 Diag: Wes Davis



Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.





### **OIL ANALYSIS REPORT**

### Sample Rating Trend

# **WATER**

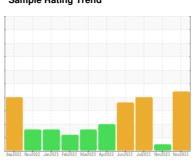


## HOTLINE/120 MILL **120 MAIN DRIVE PINION 1415-014-1190**

Component

Gearbox

CITGO EP COMPOUND ISO 800 (5000 GAL)





### DIAGNOSIS

#### Recommendation

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

### Wear

All component wear rates are normal.

#### Contamination

There is a moderate amount of particulates present in the oil. 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.

-)		Sep2022 Nov2	022 Jan2023 Feb2023 Mar2	023 Apr2023 Jun2023 Jul2023 Nov2	023 Nov2023	
SAMPLE INFORM	MOITAN	method	limit/base	current	history1	history2
Sample Number		Client Info		KFS0005202	KFS0004820	KFS0003842
Sample Date		Client Info		20 Nov 2023	10 Nov 2023	19 Jul 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE		SEVERE
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	31	12	17
Chromium	ppm	ASTM D5185m	>15	0	0	0
Nickel	ppm	ASTM D5185m	>15	0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	1	<1
Lead	ppm	ASTM D5185m	>100	15	6	10
Copper	ppm	ASTM D5185m	>200	<1	<1	<1
Tin	ppm	ASTM D5185m	>25	2	<1	1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		3	<1	0
Barium	ppm	ASTM D5185m		0	0	2
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		0	<1	<1
Calcium	ppm	ASTM D5185m		8	9	2
Phosphorus	ppm	ASTM D5185m		121	124	112
Zinc	ppm	ASTM D5185m		<1	16	1
Sulfur	ppm	ASTM D5185m		5991	5933	6200
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	2	0	<1
Sodium	ppm	ASTM D5185m		3	<1	0
Potassium	ppm	ASTM D5185m	>20	2	<1	<1
Water	%	ASTM D6304	>0.2	<b>1.82</b>	1.01	
ppm Water	ppm	ASTM D6304	>2000	<b>18200</b>	10100	
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	7055		203585
Particles >6µm		ASTM D7647	>5000	3843		65271
Particles >14µm		ASTM D7647	>640	<b>△</b> 654		<u> </u>
Particles >21µm		ASTM D7647	>160	<u>^</u> 220		177
Particles >38µm		ASTM D7647	>40	34		2
Particles >71µm		ASTM D7647	>10	3		1
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u>^</u> 20/19/17		<b>2</b> 5/23/18
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

Acid Number (AN)

mg KOH/g ASTM D8045

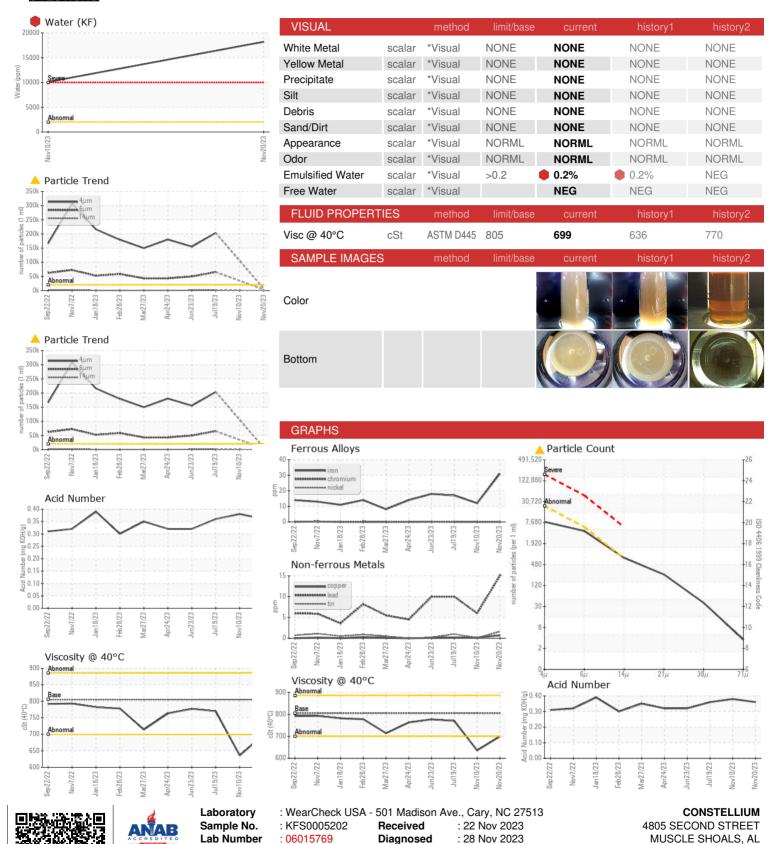
0.38

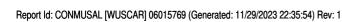
0.36

0.36



### **OIL ANALYSIS REPORT**





Certificate L2367

**Unique Number** 

: 10754913

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.

Test Package : IND 2 ( Additional Tests: KF, PrtCount )

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

Diagnostician : Jonathan Hester

US 35661

Contact: Joel Even

T: (256)740-7490

joel.even@constellium.com