

PROBLEM SUMMARY

Sample Rating Trend

ISO

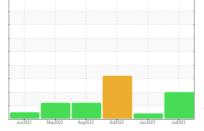
FINISHING/1255

1255-003-0200 - UNWIND 1 1255-003-0200 - UNWIND 1

Componen

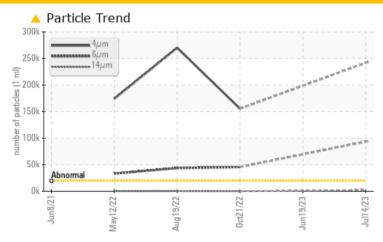
Opposite Drive End Gearbox

CITGO COMPOUND EP 320 (--- GAL)





COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS									
Sample Status			ABNORMAL	ABNORMAL	SEVERE				
Particles >4µm	ASTM D7647	>20000	241863		<u>▲</u> 155501				
Particles >6µm	ASTM D7647	>5000	93550		45525				
Particles >14μm	ASTM D7647	>640	2393		170				
Particles >21μm	ASTM D7647	>160	4 319		19				
Oil Cleanliness	ISO 4406 (c)	>21/19/16	<u> 25/24/18</u>		2 4/23/15				

Customer Id: CONMUSAL Sample No.: KFS0003847 Lab Number: 05899866 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Angela Borella +1 800-237-1369 angela.borella@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 Filter			?	We recommend you service the filters on this component if applicable.

HISTORICAL DIAGNOSIS

19 Jun 2023 Diag: Doug Bogart

VIS DEBRIS



We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.



21 Oct 2022 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. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.All component wear rates are normal. Particles >6µm are severely high. Oil Cleanliness are severely high. Particles >4µm are abnormally high. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



19 Aug 2022 Diag: Angela Borella

150



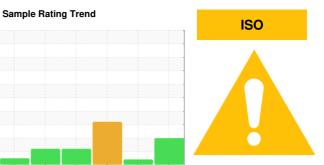
We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.





OIL ANALYSIS REPORT

DT Sample



FINISHING/1255

1255-003-0200 - UNWIND 1 1255-003-0200 - UNWIND 1

Componen

Opposite Drive End Gearbox

CITGO COMPOUND EP 320 (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

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

		Jun 2021	May2022 Aug2022	Oct2022 Jun2023	Jul2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KFS0003847	KFS0002108	KFS0002192
Sample Date		Client Info		14 Jul 2023	19 Jun 2023	21 Oct 2022
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				ABNORMAL	ABNORMAL	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	27	23	24
Chromium	ppm	ASTM D5185m	>15	0	<1	0
Nickel	ppm	ASTM D5185m	>15	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	<1	0
Lead	ppm	ASTM D5185m	>100	0	<1	0
Copper	ppm	ASTM D5185m	>200	0	<1	<1
Tin	ppm	ASTM D5185m	>25	0	0	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		53	40	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		0	1	0
Calcium	ppm	ASTM D5185m		4	4	8
Phosphorus	ppm	ASTM D5185m		243	196	94
Zinc	ppm	ASTM D5185m		2	0	4
Sulfur	ppm	ASTM D5185m		8413	7607	7044
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	18	4	0
Sodium	ppm	ASTM D5185m		<1	1	0
Potassium	ppm	ASTM D5185m	>20	<1	2	0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	241863		<u> </u>
Particles >6µm		ASTM D7647	>5000	4 93550		45525
Particles >14µm		ASTM D7647	>640	2393		170
Particles >21µm		ASTM D7647	>160	<u></u> 319		19
Particles >38µm		ASTM D7647	>40	5		0
Particles >71µm		ASTM D7647	>10	0		0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u> 25/24/18</u>		• 24/23/15
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

0.39

Acid Number (AN) mg KOH/g ASTM D8045

0.30

0.13



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KFS0003847

: 05899866 : 10561222

Diagnosed Diagnostician

Test Package : IND 2 (Additional Tests: PrtCount)

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

CONSTELLIUM

4805 SECOND STREET MUSCLE SHOALS, AL US 35661

Contact: Randy Nichols

randall.nichols@constellium.com T: (256)386-6956

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

Received

: 17 Jul 2023

: 18 Jul 2023

: Angela Borella

F: