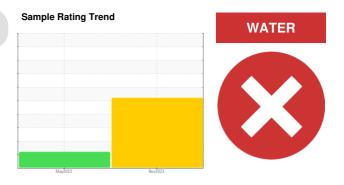


PROBLEM SUMMARY

HOTLINE/120 MILL #1 PINCH ROLL REDUCER TOP 1415-004-0010 TOP

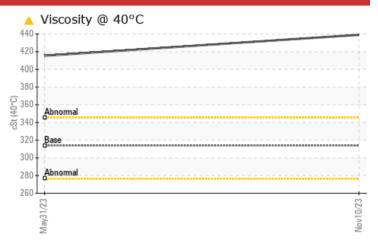
Top Gearbox

CITGO COMPOUND EP 320 (12 GAL)









RECOMMENDATION

We advise that you check for the source of water entry. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles and water present in this sample.

PROBLEMATIC TEST RESULTS									
Sample Status				SEVERE	ABNORMAL				
Water	%	ASTM D6304	>0.2	1.37					
ppm Water	ppm	ASTM D6304	>2000	13700					
Silt	scalar	*Visual	NONE	▲ HEAVY	NONE				
Appearance	scalar	*Visual	NORML	MILKY	NORML				
Emulsified Water	scalar	*Visual	>0.2	0.2%	NEG				
Visc @ 40°C	cSt	ASTM D445	314	439	<u>415.4</u>				

Customer Id: CONMUSAL **Sample No.:** KFS0004813 Lab Number: 06007667 Test Package: IND 2



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

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 advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.			
Resample			?	We recommend an early resample to monitor this condition.			
Alert			?	We were unable to perform a particle count due to a high concentration of particles present in this sample.			
Check Water Access			?	We advise that you check for the source of water entry.			
Filter Fluid			?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.			

HISTORICAL DIAGNOSIS

31 May 2023 Diag: Jonathan Hester

VISCOSITY



No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 6 microns in size) present in the oil. Viscosity of sample indicates oil is within ISO 460 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.





OIL ANALYSIS REPORT

HOTLINE/120 MILL #1 PINCH ROLL REDUCER TOP 1415-004-0010 TOP

Top Gearbox

CITGO COMPOUND EP 320 (12 GAL)

Sample Rating Trend



DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles and water present in this sample.

Wear

All component wear rates are normal.

Contamination

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

Fluid Condition

The oil viscosity is higher than normal. The AN level is acceptable for this fluid.

			May2023	Nov2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KFS0004813	KFS0003343	
Sample Date		Client Info		10 Nov 2023	31 May 2023	
Machine Age	hrs	Client Info		0	0	
Oil Age	hrs	Client Info		0	0	
Oil Changed		Client Info		N/A	N/A	
Sample Status				SEVERE	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	6	57	
Chromium	ppm	ASTM D5185m	>15	0	0	
Nickel	ppm	ASTM D5185m	>15	0	0	
Titanium	ppm	ASTM D5185m		0	<1	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>25	<1	2	
Lead	ppm	ASTM D5185m	>100	0	0	
Copper	ppm	ASTM D5185m	>200	4	4	
Tin	ppm	ASTM D5185m	>25	0	<1	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	5	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		0	0	
Manganese	ppm	ASTM D5185m		0	<1	
Magnesium	ppm	ASTM D5185m		0	0	
Calcium	ppm	ASTM D5185m		2	1	
Phosphorus	ppm	ASTM D5185m		102	79	
Zinc	ppm	ASTM D5185m		8	0	
Sulfur	ppm	ASTM D5185m		5184	6814	
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<1	5	
Sodium	ppm	ASTM D5185m		0	<1	
Potassium	ppm	ASTM D5185m	>20	<1	<1	
Water	%	ASTM D6304	>0.2	1.37		
ppm Water	ppm	ASTM D6304	>2000	13700		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000		▲ 79529	
Particles >6µm		ASTM D7647	>5000		4133	
Particles >14µm		ASTM D7647	>640		44	
Particles >21µm		ASTM D7647	>160		9	
Particles >38µm		ASTM D7647	>40		0	
Particles >71µm		ASTM D7647	>10		0	
Oil Cleanliness		ISO 4406 (c)	>21/19/16		<u>23/19/13</u>	
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.36	0.35	



OIL ANALYSIS REPORT







Certificate L2367

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

: KFS0004813 : 06007667

: 10741429

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 14 Nov 2023 Diagnosed

: 06 Dec 2023 Diagnostician : Doug Bogart

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

4805 SECOND STREET MUSCLE SHOALS, AL US 35661

Contact: Joel Even joel.even@constellium.com T: (256)740-7490