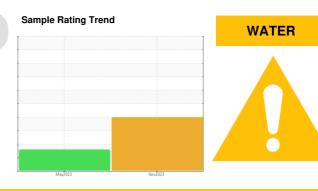


PROBLEM SUMMARY

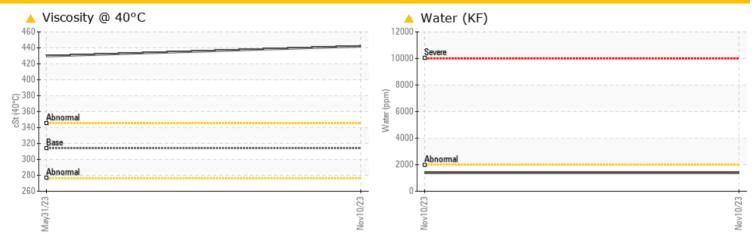
HOTLINE/120 MILL #1 PINCH ROLL REDUCER BTM 1415-004-0010 BTM

Bottom Gearbox

CITGO COMPOUND EP 320 (20 GAL)



COMPONENT CONDITION SUMMARY



RECOMMENDATION

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 present in this sample.

PROBLEMATIC TEST RESULTS										
Sample Status				ABNORMAL	ABNORMAL					
Water	%	ASTM D6304	>0.2	△ 0.139						
ppm Water	ppm	ASTM D6304	>2000	1390						
Silt	scalar	*Visual	NONE	▲ MODER	NONE					
Debris	scalar	*Visual	NONE	MODER	LIGHT					
Appearance	scalar	*Visual	NORML	▲ HAZY	NORML					
Visc @ 40°C	cSt	ASTM D445	314	442	429.7					

Customer Id: CONMUSAL Sample No.: KFS0004814 **Lab Number:** 06007673 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 Done By Description Action **Status** Date We advise that you perform a filter service, and use off-line filtration to Change Filter ? improve the cleanliness of the system fluid. Resample ? We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of ? Alert particles present in this sample. We advise that you perform a filter service, and use off-line filtration to Filter Fluid ? 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 < 14 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.



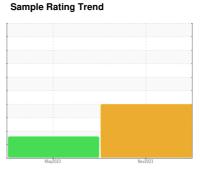


OIL ANALYSIS REPORT

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

Bottom Gearbox

CITGO COMPOUND EP 320 (20 GAL)





DIAGNOSIS

Recommendation

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 present in this sample.

Wear

All component wear rates are normal.

Contamination

Appearance is hazy. Moderate concentration of visible dirt/debris present in the oil. There is a moderate amount of visible silt present in the sample. There is a trace of moisture 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		KFS0004814	KFS0003344	
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				ABNORMAL	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	5	28	
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	<1	
Lead	ppm	ASTM D5185m	>100	0	0	
Copper	ppm	ASTM D5185m	>200	2	2	
Tin	ppm		>25	0	0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	2	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		0	0	
Manganese	ppm	ASTM D5185m		0	<1	
Magnesium	ppm	ASTM D5185m		2	0	
Calcium	ppm	ASTM D5185m		4	<1	
Phosphorus	ppm	ASTM D5185m		116	95	
Zinc	ppm	ASTM D5185m		9	0	
Sulfur	ppm	ASTM D5185m		5274	6628	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<1	3	
Sodium	ppm	ASTM D5185m	700	0	<1	
Potassium	ppm	ASTM D5185m	>20	1	<1	
Water	%	ASTM D6304		▲ 0.139		
ppm Water	ppm	ASTM D6304	>2000	▲ 1390		
FLUID CLEANLIN		method	limit/base	current	history1	history2
Particles >4μm	_00	ASTM D7647	>20000		▲ 52875	
Particles >6µm		ASTM D7647	>5000		△ 7526	
Particles >14µm		ASTM D7647	>640		395	
Particles >14µm		ASTM D7647	>160		75	
Particles >2 ημπ		ASTM D7647 ASTM D7647	>40		4	
Particles >71µm		ASTM D7647	>40		0	
Oil Cleanliness		ISO 4406 (c)	>10		△ 23/20/16	
FLUID DEGRADA		method	limit/base	current	history1	history2
A aid Niumbar (ANI)	ma 1/011/a	ACTM DODAE		0.26	0.05	

Acid Number (AN)

mg KOH/g ASTM D8045

0.35

0.36



OIL ANALYSIS REPORT





Certificate L2367

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KFS0004814

: 06007673 : 10741435

Received Diagnosed

: 06 Dec 2023 Diagnostician : Doug Bogart

: 14 Nov 2023

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