

PROBLEM SUMMARY

Sample Rating Trend

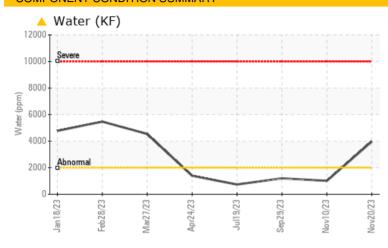
WATER

HOTLINE/130 REVERSING MILL 130 SCREWDOWN LUBE RESV 1414-041-1010

Component Gearbox

CITGO COMPOUND EP 320 (2500 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check for the source of water entry. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS							
Sample Status				ABNORMAL		ABNORMAL	
Water	%	ASTM D6304	>0.2	△ 0.397	0.101	0.120	
ppm Water	ppm	ASTM D6304	>2000	4 3970	1010	1200	

Customer Id: CONMUSAL Sample No.: KFS0004823 Lab Number: 06015764 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
Check Water Access			?	We advise that you check for the source of water entry.

HISTORICAL DIAGNOSIS

10 Nov 2023 Diag:







29 Sep 2023 Diag: Wes Davis

ISO



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. All component wear rates are normal. There is a moderate amount of particulates (2 to 100 microns in size) present in the oil. The water content is negligible. The system cleanliness is above the acceptable limit for the target ISO 4406 cleanliness code. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

19 Jul 2023 Diag: Jonathan Hester

CONTAMINANT



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. Appearance is hazy. 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 condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend



history2

KFS0004891

HOTLINE/130 REVERSING MI 130 SCREWDOWN LUBE RESV 14

Component

Gearbox

CITGO COMPOUND EP 320 (2500 GAL)

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is a moderate concentration of water present in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

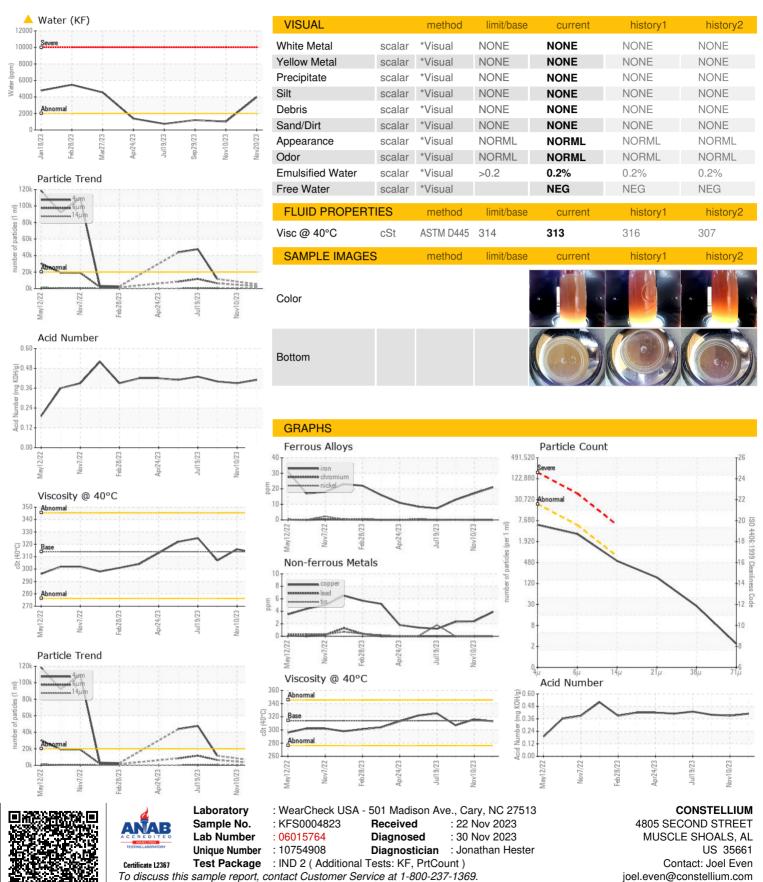
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

MILL V 1414-041-1010	May 2022	Nevd022 Feb2023	Apr(023 Jul(023 N	wil021	
SAMPLE INFORMATION	method	limit/base	current	history1	
Sample Number	Client Info		KFS0004823	KFS0004926	

Sample Number		Ciletit iiiio		KI 30004023	11 30004320	1(1 00004031
Sample Date		Client Info		20 Nov 2023	10 Nov 2023	29 Sep 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				ABNORMAL		ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	21	17	13
Chromium	ppm	ASTM D5185m	>15	0	0	<1
Nickel	ppm	ASTM D5185m	>15	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	1	<1	0
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	4	2	2
Tin	ppm	ASTM D5185m	>25	0	0	0
Vanadium	ppm	ASTM D5185m		<1	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES	PPIII		limit/base			
		method	imivoase	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
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		0	1	1
Phosphorus	ppm	ASTM D5185m		116	125	110
Zinc	ppm	ASTM D5185m		0	7	2
Sulfur	ppm	ASTM D5185m		5293	5050	4625
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<1	0	<1
Sodium	ppm	ASTM D5185m		0	0	3
Potassium	ppm	ASTM D5185m	>20	4	3	2
Water	%	ASTM D6304	>0.2	△ 0.397	0.101	0.120
ppm Water	ppm	ASTM D6304	>2000	△ 3970	1010	1200
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	5072		11553
Particles >6µm		ASTM D7647	>5000	2763		△ 6294
Particles >14µm		ASTM D7647	>640	470		<u></u> 1071
Particles >21µm		ASTM D7647	>160	158		△ 361
Particles >38µm		ASTM D7647	>40	24		56
Particles >71µm		ASTM D7647	>10	2		6
Oil Cleanliness		ISO 4406 (c)	>21/19/16	20/19/16		△ 21/20/17
	TION	. ,				
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.41	0.39	0.40



OIL ANALYSIS REPORT



* - 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)

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