

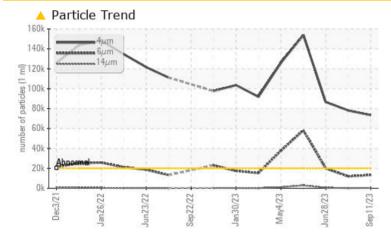
# **PROBLEM SUMMARY**

## Area COLD MILL/CM-5-STAND Machine Id PINION LUBE 1710-014-3311 Component

Gearbox Eluid

# CITGO COMPOUND EP 460 (3500 GAL)

# COMPONENT CONDITION SUMMARY



# RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS									
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL				
Particles >4µm	ASTM D7647	>20000	<u> </u>	<b>A</b> 78117	▲ 86556				
Particles >6µm	ASTM D7647	>5000	🔺 13348	🔺 11918	<b>1</b> 9905				
Oil Cleanliness	ISO 4406 (c)	>21/19/16	<u> </u>	<b>a</b> 23/21/15	<u> </u>				

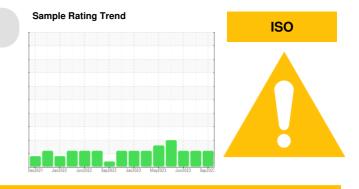
Customer Id: CONMUSAL Sample No.: KFS0003356 Lab Number: 05962872 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Don Baldridge +1 don.b505@comcast.net

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



There are no recommended actions for this sample.

# HISTORICAL DIAGNOSIS

03 Jul 2023 Diag: Wes Davis

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a moderate 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.

## 28 Jun 2023 Diag: Doug Bogart

31 May 2023 Diag: Don Baldridge

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

view report

# ISO

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 suitable for further service.





# Report Id: CONMUSAL [WUSCAR] 05962872 (Generated: 09/28/2023 15:41:22) Rev: 1



# **OIL ANALYSIS REPORT**

## Area COLD MILL/CM-5-STAND Machine Id PINION LUBE 1710-014-3311 Component

Gearbox

### Fluid CITGO COMPOUND EP 460 (3500 GAL)

# DIAGNOSIS

# A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

# Wear

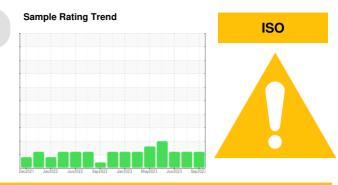
All component wear rates are normal.

# Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

# **Fluid Condition**

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



	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KFS0003356	KFS0003789	KFS0002346
Sample Date		Client Info		11 Sep 2023	03 Jul 2023	28 Jun 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	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	5	7	5
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	0	<1	0
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	14	17	14
Tin	ppm	ASTM D5185m	>25	0	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		60	26	62
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	0	0
Calcium	ppm	ASTM D5185m		4	1	3
Phosphorus	ppm	ASTM D5185m		249	256	268
Zinc	ppm	ASTM D5185m		2	3	0
Sulfur	ppm	ASTM D5185m				0
		ASTIN DS105III		6781	8517	8791
CONTAMINANTS		method	limit/base		8517 history1	
CONTAMINANTS Silicon	ppm		limit/base			8791
		method		current	history1	8791 history2
Silicon	ppm	method ASTM D5185m	>50	current 5	history1 4	8791 history2 4
Silicon Sodium	ppm ppm ppm	method ASTM D5185m ASTM D5185m	>50	current 5 0 0	history1 4 0	8791 history2 4 <1
Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m	>50 >20 limit/base >20000	current 5 0 0	history1 4 0 0 0 history1 ▲ 78117	8791 history2 4 <1 0
Silicon Sodium Potassium FLUID CLEANLIN	ppm ppm ppm	method ASTM D5185m ASTM D5185m ASTM D5185m method	>50 >20 limit/base	current     5     0     0     current     ▲ 73401     ▲ 13348	history1 4 0 0 history1	8791 history2 4 <1 0 history2
Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	>50 >20 limit/base >20000 >5000 >640	current   5   0   0   current   ▲ 73401   ▲ 13348   342	history1 4 0 0 0 history1 ▲ 78117	8791 history2 4 <1 0 history2 Å 86556
Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>50 >20 limit/base >20000 >5000 >640	current     5     0     0     current     ▲ 73401     ▲ 13348	history1 4 0 0 0 history1 ▲ 78117 ▲ 11918	8791 history2 4 <1 0 history2 ▲ 86556 ▲ 19905
Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	>50 >20 limit/base >20000 >5000 >640	current   5   0   0   current   ▲ 73401   ▲ 13348   342	history1 4 0 0 history1 ▲ 78117 ▲ 11918 189	8791 history2 4 <1 0 history2 ▲ 86556 ▲ 19905 510
Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>50 >20 limit/base >20000 >5000 >5000 >640 >160 >40	Current 5 0 0 0 Current ▲ 73401 ▲ 13348 342 77	history1   4   0   0   0   history1   ▲ 78117   ▲ 11918   189   27	8791 history2 4 <1 0 history2 ▲ 86556 ▲ 19905 510 135
Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm	methodASTM D5185mASTM D5185mASTM D5185mASTM D5185mASTM D7647ASTM D7647ASTM D7647ASTM D7647ASTM D7647ASTM D7647ASTM D7647ASTM D7647	>50 >20 limit/base >20000 >5000 >5000 >640 >160 >40	Current 5 0 0 Current ▲ 73401 ▲ 13348 342 77 3	history1 4 0 0 history1 ▲ 78117 ▲ 11918 189 27 0	8791 history2 4 <1 0 history2 ▲ 86556 ▲ 19905 510 135 4
Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >21µm Particles >38µm Particles >71µm	ppm ppm ESS	methodASTM D5185mASTM D5185mASTM D5185mASTM D5185mASTM D7647ASTM D7647ASTM D7647ASTM D7647ASTM D7647ASTM D7647ASTM D7647ASTM D7647ASTM D7647	>50 >20 limit/base >20000 >5000 >640 >160 >40 >10	current   5   0   0   current   ▲ 73401   ▲ 13348   342   77   3   2   ▲ 23/21/16	history1 4 0 0 history1 ▲ 78117 ▲ 11918 189 27 0 0 0	8791 history2 4 <1 0 history2 ▲ 86556 ▲ 19905 510 135 4 1



Acid Number

an 26/22

Viscosity @ 40°C

an 76/77

un23/22

0.80

0.70 (B/H0.60 B 0.50 3 0.40 j 0.30 Pio 0.20

0.10

0.00

52

500

480

40°C1 460

25 440

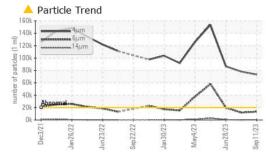
420

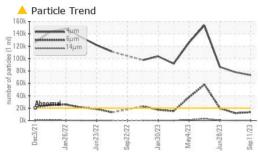
400 Abnorma

380

Dec

# **OIL ANALYSIS REPORT**





CC/CC/00

Sep22/22

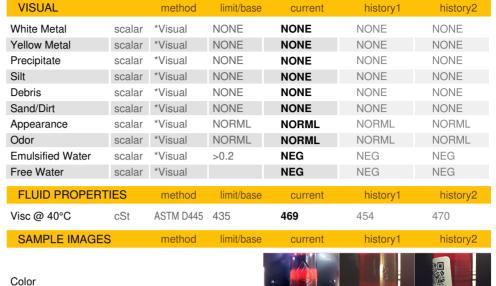
Jan 30/23

un73/77

an30/23

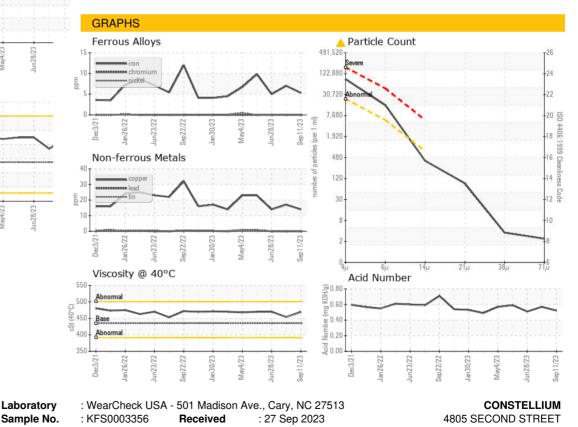
Mav4/73

May4/23





Bottom





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Submitted By: Kenneth Humphries

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