

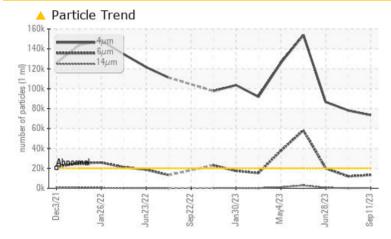
PROBLEM SUMMARY

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>	A 78117	▲ 86556				
Particles >6µm	ASTM D7647	>5000	🔺 13348	🔺 11918	1 9905				
Oil Cleanliness	ISO 4406 (c)	>21/19/16	<u> </u>	a 23/21/15	<u> </u>				

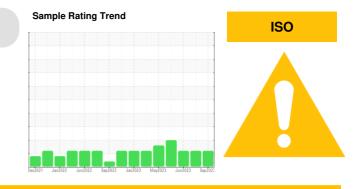
Customer Id: CONMUSAL Sample No.: KFS0003356 Lab Number: 05962872 Test Package: IND 2



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

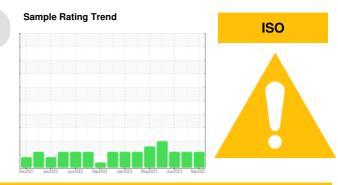
All component wear rates are normal.

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

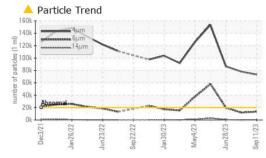
420

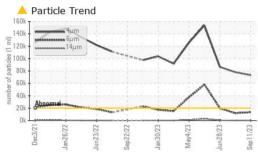
400 Abnorma

380

Dec

OIL ANALYSIS REPORT





CC/CC/00

Sep22/22

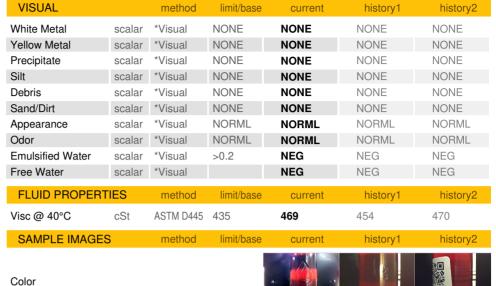
Jan 30/23

un73/77

an30/23

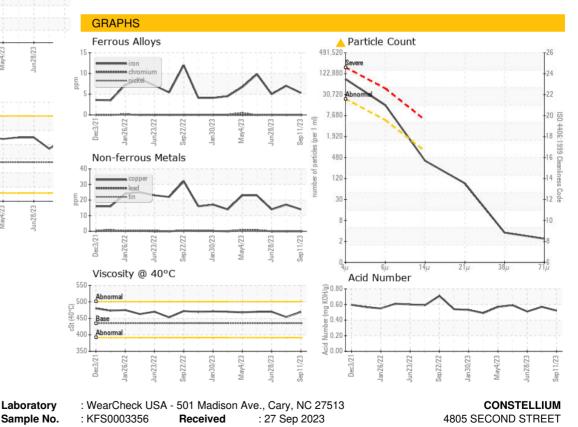
Mav4/73

May4/23





Bottom





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Submitted By: Kenneth Humphries

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