

PROBLEM SUMMARY

Sample Rating Trend

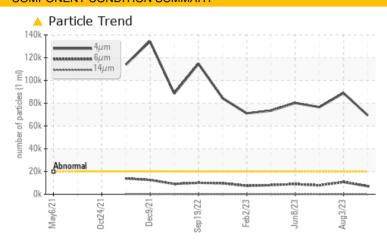
ISO

COLD MILL/CM-3STD-1S Machine Id SOUTH 3-STAND PINION LUBE 1526-007-8020

Component **Gearbox**

CITGO COMPOUND EP 320 (3000 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

PROBLEMATIC TI	EST RESULTS				
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL
Particles >4µm	ASTM D7647	>20000	△ 69348	<u>▲</u> 88867	<u> </u>
Particles >6μm	ASTM D7647	>5000	123	▲ 10729	<u></u> 7795
Oil Cleanliness	ISO 4406 (c)	>21/19/16	23/20/13	24/21/14	23/20/14

Customer Id: CONMUSAL Sample No.: KFS0003830 Lab Number: 05959060 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

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 recommend you service the filters on this component.
Resample			?	We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS

03 Aug 2023 Diag: Don Baldridge





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 silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service



03 Jul 2023 Diag: Wes Davis

ISO



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.



08 Jun 2023 Diag: Wes Davis

ISO



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.





OIL ANALYSIS REPORT

S

Sample Rating Trend

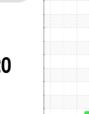
ISO

history2

COLD MILL/CM-3STD-1S **SOUTH 3-STAND PINION LUBE 1**

Gearbox

CITGO COMPOUND EP 320 (3000 GAL)



DIAGNOSIS

Recommendation

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

All component wear rates are normal.

Contamination

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

Fluid Condition

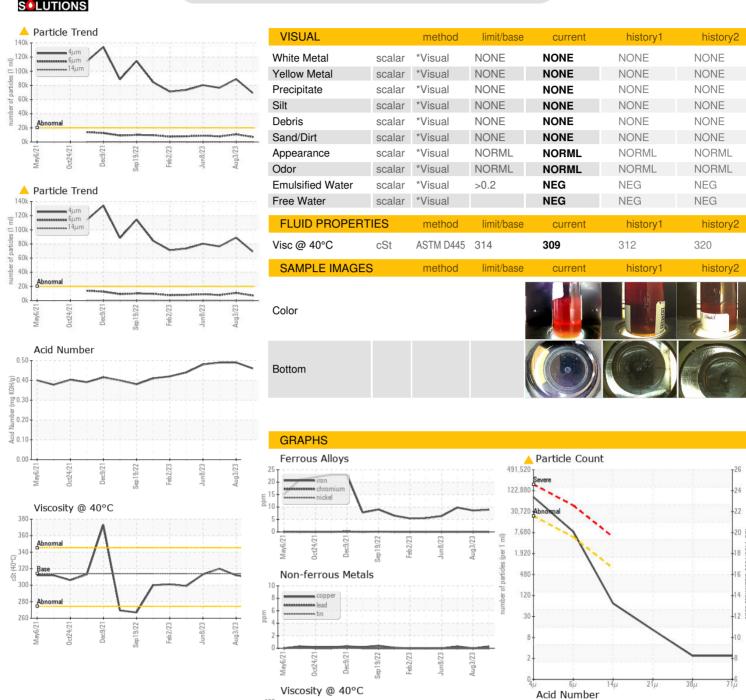
The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

1500 007 0000							
1526-007-8020							
	May2021 C	Dct2021 Dec2	021 Sep20	22 Feb202	3 Jun2023	Aug2023	
AMPLE INFORMATION	method	limit	/base	С	urrent		hi
mple Number	Client Info			KFS0	003830	KF:	S0(

Sample Number		Client Info		KFS0003830	KFS0003814	KFS0003782
Sample Date		Client Info		21 Sep 2023	03 Aug 2023	03 Jul 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	9	9	10
Chromium	ppm	ASTM D5185m	>15	0	0	0
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	0	<1	<1
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	<1	0	<1
Tin	ppm	ASTM D5185m	>25	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		9	7	8
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		<1	6	0
Calcium	ppm	ASTM D5185m		1	1	0
Phosphorus	ppm	ASTM D5185m		142	153	150
Zinc	ppm	ASTM D5185m		5	0	0
Sulfur	ppm	ASTM D5185m		5771	7713	7027
CONTAMINANTS	}	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<1	<1	<1
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	0	<1	0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	69348	<u>▲</u> 88867	<u></u>
Particles >6μm		ASTM D7647	>5000	^ 7123	<u>▲</u> 10729	<u> </u>
Particles >14µm		ASTM D7647	>640	63	88	83
Particles >21µm		ASTM D7647	>160	11	10	13
Particles >38µm		ASTM D7647	>40	2	1	1
Particles >71µm		ASTM D7647	>10	2	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	23/20/13	<u>4</u> 24/21/14	△ 23/20/14
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.46	0.49	0.49



OIL ANALYSIS REPORT







Certificate L2367

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

: 05959060 : 10660273

400

\$2 300

250

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 22 Sep 2023 : KFS0003830 Received Diagnosed

Diagnostician

: 25 Sep 2023 : Wes Davis

Aug3/23

(B) 0.50 SH 0.40 ₤0.30

흗 0.20 ≥ 0.10 0.00 kg

Test Package : IND 2 (Additional Tests: 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: Randy Nichols

randall.nichols@constellium.com

T: (256)386-6956 F:

Report Id: CONMUSAL [WUSCAR] 05959060 (Generated: 09/30/2023 13:56:08) Rev: 1