

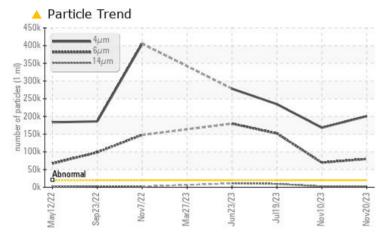
PROBLEM SUMMARY

Area HOTLINE/120 MILL Machine Id 120 SCREWDOWN LUBE RESV 1415-014-0160 Component

Gearbox

Fluid CITGO COMPOUND EP 320 (3000 GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

PROBLEMATIC TE	ST RESULTS			
Sample Status		ABNORMAL		ABNORMAL
Particles >4µm	ASTM D7647 >2	0000 🔺 200858 🚺	168165	2 34626
Particles >6µm	ASTM D7647 >5	000 🔺 79859 🚺	69647	🔺 151999
Particles >14µm	ASTM D7647 >64	40 🔺 2194	2 371	4 9491
Particles >21µm	ASTM D7647 >1	60 🔺 212	2 80	9 64
Oil Cleanliness	ISO 4406 (c) >2	1/19/16 🔺 25/23/18	25/23/18	▲ 25/24/20

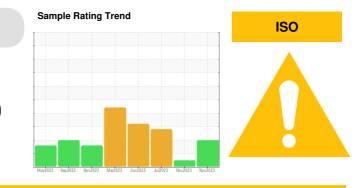
Customer Id: CONMUSAL Sample No.: KFS0005201 Lab Number: 06015770 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

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



RECOMMENDED ACTIONS					
Action	Status	Date	Done By	Description	
Change Filter			?	We recommend you service the filters on this component if applicable.	

HISTORICAL DIAGNOSIS







view report

19 Jul 2023 Diag: Angela Borella

10 Nov 2023 Diag:

Check seals and/or filters for points of contaminant entry. We advise that you perform a filter service, and use offline filtration to improve the cleanliness of the system fluid. Resample at the next service interval to monitor. The aluminum level is abnormal. All other 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 acceptable for the time in service.

23 Jun 2023 Diag: Angela Borella

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. The aluminum level is abnormal. All other component wear rates are normal. There is a high amount of particulates present in the oil. The oil viscosity is higher than normal. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.







OIL ANALYSIS REPORT

Area HOTLINE/120 MILL Machine Id 120 SCREWDOWN LUBE RESV 1415-014-0160 Component

Gearbox

Fluid CITGO COMPOUND EP 320 (3000 GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

Wear

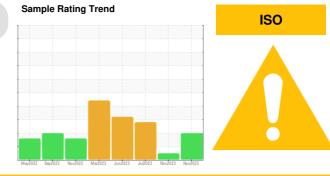
All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

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



SAMPLE INFORM		method	limit/base	current	history1	history2
					KFS0004923	
Sample Number		Client Info		KFS0005201 20 Nov 2023		KFS0003799 19 Jul 2023
Sample Date	la wa	Client Info			10 Nov 2023	
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0		0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL		ABNORMAL
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	12	12	41
Chromium	ppm	ASTM D5185m	>15	0	0	<1
Nickel	ppm	ASTM D5185m	>15	0	0	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	7	7	<u>∧</u> 30
Lead	ppm	ASTM D5185m	>100	2	3	2
Copper	ppm		>200	2	<1	7
Tin	ppm	ASTM D5185m	>25	0	0	<1
Vanadium	ppm	ASTM D5185m	~	<1	0	0
Cadmium		ASTM D5185m		0	0	0
	ppm					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		1	<1	31
Barium	ppm	ASTM D5185m		0	0	2
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		0	3	6
Calcium	ppm	ASTM D5185m		70	33	598
Phosphorus	ppm	ASTM D5185m		107	129	108
Zinc	ppm	ASTM D5185m		0	12	4
Sulfur	ppm	ASTM D5185m		5398	5288	4887
CONTAMINANTS	5	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<1	<1	2
Sodium		ASTM D5185m		1	1	6
Potassium	ppm	ASTM D5185m		2	2	3
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	A 200858	• 168165	▲ 234626
Particles >6µm		ASTM D7647		A 79859	69647	▲ 151999
Particles >14µm		ASTM D7647	>640	2194	2 371	9 491
Particles >21µm		ASTM D7647		<u> </u>	▲ 280	▲ 964
Particles >38µm		ASTM D7647	>40	2	4	8
Particles >71µm		ASTM D7647	>10	0	0	2
Oil Cleanliness		ISO 4406 (c)	>21/19/16	A 25/23/18	2 5/23/18	▲ 25/24/20
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.22	0.31	0.27
	ing non ing	. 10 1 11 20040		V	0.01	0.21

Report Id: CONMUSAL [WUSCAR] 06015770 (Generated: 11/29/2023 22:36:10) Rev: 1

Submitted By: Kenneth Humphries



Acid Number

0.40

(B/HO)

.B 0.10

0.00

450

400

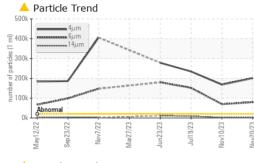
350

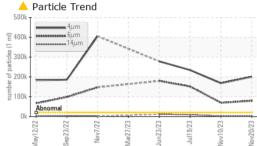
300

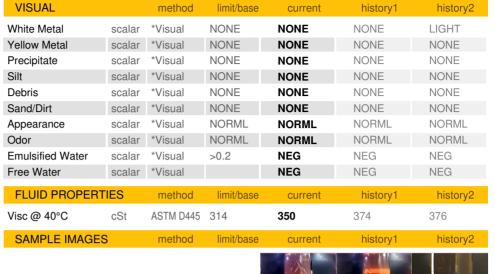
250

cSt (40°C)

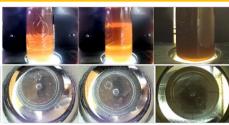
OIL ANALYSIS REPORT



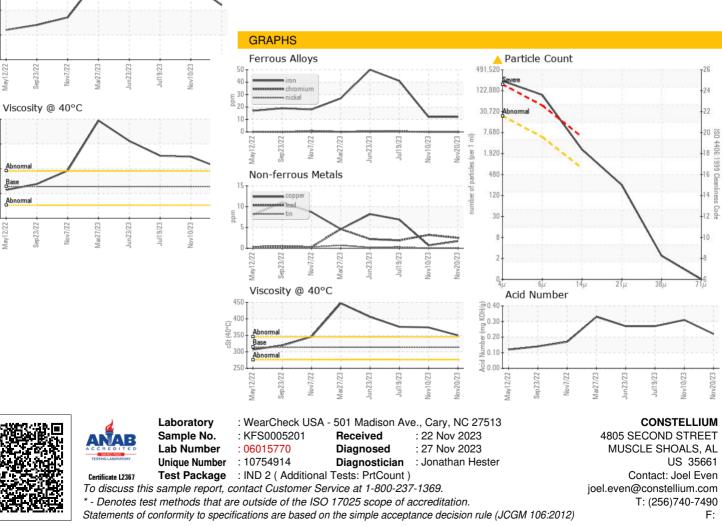




Color



Bottom



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