



Area CAST HOUSE/CRANES 91 MAIN HOIST GEARBOX 1015-M91-4000

PROBLEM SUMMARY

Gearbox

Fluid CITGO COMPOUND EP 320 (25 GAL)

COMPONENT CONDITION SUMMARY









RECOMMENDATION

We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

THOBLEMANOT	LOTINE	.00110				
Sample Status				SEVERE	SEVERE	ABNORMAL
Iron	ppm	ASTM D5185m	>200	4 549	A 300	64
Particles >4µm		ASTM D7647	>20000	🔺 279391	4 232708	1 08121
Particles >6µm		ASTM D7647	>5000	<u> </u>	1 84430	A 22604
Particles >14µm		ASTM D7647	>640	🔺 126976	a 23267	657
Particles >21µm		ASTM D7647	>160	<u> </u>	2 366	143
Particles >38µm		ASTM D7647	>40	<u> </u>	13	2
Particles >71µm		ASTM D7647	>10	<u> </u>	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u> </u>	▲ 25/25/22	<u> </u>

Customer Id: CONMUSAL Sample No.: KFS0004642 Lab Number: 06178717 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

DECON	
	ACTION

Action Inspect Wear Source	Status	Date	Done By ?
Change Fluid			?
Resample			?

Description

We advise that you inspect for the source(s) of wear.

We recommend that you drain the oil from the component if this has not already been done.

We recommend an early resample to monitor this condition.

HISTORICAL DIAGNOSIS



15 Dec 2023 Diag: Angela Borella

Check seals and/or filters for points of contaminant entry. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. Resample at the next service interval to monitor.Gear wear is indicated. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.





03 Jul 2023 Diag: Doug Bogart

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 acceptable for the time in service.



view report

22 Nov 2022 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.





OIL ANALYSIS REPORT

Area CAST HOUSE/CRANES 91 MAIN HOIST GEARBOX 1015-M91-4000

Gearbox Fluid CITGO COMPOUND EP 320 (25 GAL)

DIAGNOSIS

Recommendation

We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

A Wear

Gear wear is indicated.

Contamination

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

Fluid Condition

The oil viscosity is higher than normal. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.



SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KFS0004642	KFS0004918	KFS0003321
Sample Date		Client Info		19 Apr 2024	15 Dec 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				SEVERE	SEVERE	ABNORMAL
CONTAMINATION	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	5 49	A 300	64
Chromium	ppm	ASTM D5185m	>15	6	2	0
Nickel	ppm	ASTM D5185m	>15	3	2	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	24	<u> </u>	2
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	1	4	<1
Tin	ppm	ASTM D5185m	>25	<1	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		14	5	11
Barium	ppm	ASTM D5185m		2	0	0
Molybdenum	ppm	ASTM D5185m		0	2	0
Manganese	ppm	ASTM D5185m		7	3	<1
Magnesium	ppm	ASTM D5185m		9	2	2
Calcium	ppm	ASTM D5185m		26	12	2
Phosphorus	ppm	ASTM D5185m		304	305	292
Zinc	ppm	ASTM D5185m		126	68	0
Sulfur	ppm	ASTM D5185m		8980	9127	6956
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	22	6	2
Sodium	ppm	ASTM D5185m		3	0	0
Potassium	ppm	ASTM D5185m	>20	1	1	10
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	A 279391	▲ 232708	▲ 108121
Particles >6µm		ASTM D7647	>5000	<u> </u>	▲ 184430	22604
Particles >14µm		ASTM D7647	>640	126976	2 3267	657
Particles >21µm		ASTM D7647	>160	<u> </u>	2 366	143
Particles >38µm		ASTM D7647	>40	<u> </u>	13	2
Particles >71µm		ASTM D7647	>10	A 30	0	0
				_ 00	°	
Oil Cleanliness		ISO 4406 (c)	>21/19/16	▲ 25/25/24	▲ 25/25/22	▲ 24/22/17
Oil Cleanliness		ISO 4406 (c) method	>21/19/16 limit/base	▲ 25/25/24 current	▲ 25/25/22 history1	▲ 24/22/17 history2

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300

250 -

200

TR 150

100

50

0

491,52

122.88

7.68

1.92 48

> 120 30

300

50

0

40 380

36

€ £340

30

280

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(B/H0)

Ê0.6

e 0.40

P 0.20

0.0

5 320

Ê²⁵⁰ \$200 R 150 100

Ê 30,72

mber of particles (per 1

OIL ANALYSIS REPORT







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Submitted By: COLD MILL - Josh Edwards

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