

OIL ANALYSIS REPORT

Area CAST HOUSE/CRANES 92 AUX HOIST GEARBOX 1015-M92-5000

Component Gearbox

Fluid CITGO COMPOUND EP 320 (10 GAL)

DIAGNOSIS

Recommendation

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

Wear

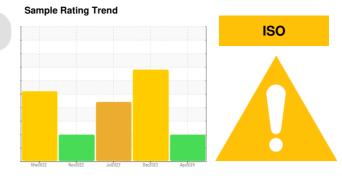
All component wear rates are normal.

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.



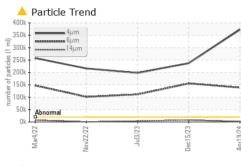
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KFS0004639	KFS0004922	KFS0003317
Sample Date		Client Info		19 Apr 2024	15 Dec 2023	03 Jul 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	SEVERE	SEVERE
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	64	193	65
Chromium	ppm	ASTM D5185m	>15	0	<1	0
Nickel	ppm	ASTM D5185m	>15	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	6	▲ 52	7
Lead	ppm	ASTM D5185m		0	0	0
Copper	ppm	ASTM D5185m		<1	3	<1
Tin	ppm	ASTM D5185m		<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		22	5	22
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		0	2	0
Manganese	ppm	ASTM D5185m		2	2	1
Magnesium	ppm	ASTM D5185m		6	2	4
Calcium	ppm	ASTM D5185m		23	10	20
Phosphorus	ppm	ASTM D5185m		259	292	262
Zinc	ppm	ASTM D5185m		16	68	9
Sulfur		ASTM D5185m		7809	8578	9 8060
	ppm					
		method	limit/base		history1	history2
Silicon	ppm	ASTM D5185m		3	5	2
Sodium	ppm			2	0	1
Potassium	ppm	ASTM D5185m		10	1	9
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	A 372880	2 37447	1 98008
Particles >6µm		ASTM D7647	>5000	<u> </u>	▲ 155632	1 11389
Particles >14µm		ASTM D7647	>640	<u> </u>	▲ 8000	<mark>▲</mark> 3596
Particles >21µm		ASTM D7647	>160	<u> </u>	<u> </u>	▲ 526
Particles >38µm		ASTM D7647	>40	1	14	6
Particles >71µm		ASTM D7647	>10	0	2	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u> </u>	▲ 25/24/20	▲ 25/24/19
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.58	0.54	0.54
S·21·25) Rev: 1		Submitted By: COLD MILL - Josh Edwards				

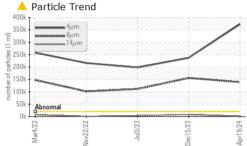
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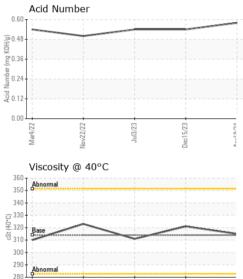
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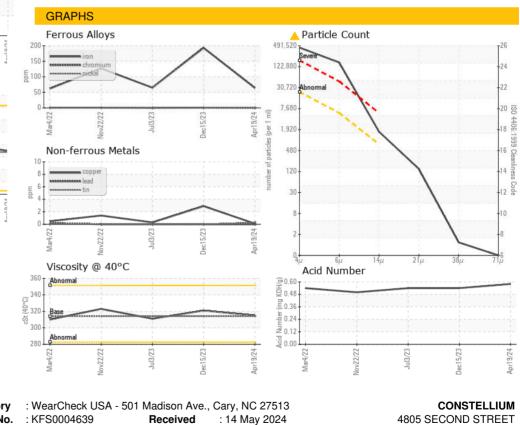


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	LIGHT
Debris	scalar	*Visual	NONE	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	314	315	321	311
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
Bottom						



Laboratory Sample No. 4805 SECOND STREET : KFS0004639 Received : 14 May 2024 Lab Number : 06179315 Tested : 15 May 2024 MUSCLE SHOALS, AL Unique Number : 11030641 Diagnosed : 16 May 2024 - Don Baldridge US 35661 Test Package : IND 2 (Additional Tests: PrtCount) **Contact: Randy Nichols** Certificate 12367 randall.nichols@constellium.com To discuss this sample report, contact Customer Service at 1-800-237-1369. T: (256)386-6956 * - 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) F:

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