

OIL ANALYSIS REPORT

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

Gearbox

Fluid CITGO COMPOUND EP 320 (3000 GAL)

DIAGNOSIS

A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

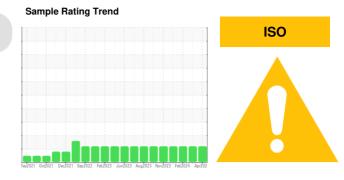
All component wear rates are normal.

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.

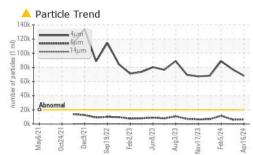


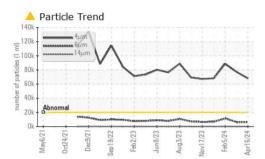
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		KFS0004479	KFS0004664	KFS0004671		
Sample Date		Client Info		16 Apr 2024	29 Feb 2024	05 Feb 2024		
Machine Age	hrs	Client Info		0	0	0		
Oil Age	hrs	Client Info		0	0	0		
Oil Changed		Client Info		N/A	N/A	N/A		
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL		
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	8	8	5		
Chromium	ppm	ASTM D5185m	>15	0	0	0		
Nickel	ppm	ASTM D5185m	>15	۰ <1	0	0		
Titanium	ppm	ASTM D5185m	210	0	0	0		
Silver		ASTM D5185m		0	0	0		
Aluminum	ppm		>25	0	0	0		
Lead	ppm	ASTM D5185m ASTM D5185m	>25	-	0	0		
	ppm			<1				
Copper	ppm	ASTM D5185m	>200	<1	0	0		
Tin	ppm	ASTM D5185m	>25	0	0	0		
Vanadium	ppm	ASTM D5185m		0	0	0		
Cadmium	ppm	ASTM D5185m		0	0	0		
ADDITIVES		method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m		5	7	8		
Barium	ppm	ASTM D5185m		0	0	0		
Molybdenum	ppm	ASTM D5185m		0	0	0		
Manganese	ppm	ASTM D5185m		<1	0	0		
Magnesium	ppm	ASTM D5185m		1	0	0		
Calcium	ppm	ASTM D5185m		2	<1	0		
Phosphorus	ppm	ASTM D5185m		137	144	120		
Zinc	ppm	ASTM D5185m		<1	0	0		
Sulfur	ppm	ASTM D5185m		6670	5664	5609		
CONTAMINANTS		method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>50	0	<1	0		
Sodium	ppm	ASTM D5185m		2	0	0		
Potassium	ppm	ASTM D5185m	>20	2	0	0		
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2		
Particles >4µm		ASTM D7647	>20000	<u> </u>	▲ 77240	▲ 88664		
Particles >6µm		ASTM D7647	>5000	6372	6344	🔺 11437		
Particles >14µm		ASTM D7647	>640	42	70	107		
Particles >21µm		ASTM D7647	>160	6	8	12		
Particles >38µm		ASTM D7647	>40	0	1	0		
Particles >71µm		ASTM D7647	>10	0	0	0		
Oil Cleanliness		ISO 4406 (c)	>21/19/16	A 23/20/13	▲ 23/20/13	▲ 24/21/14		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2		
Acid Number (AN)	mg KOH/g	ASTM D8045		0.55	0.58	0.46		
:43:32) Rev: 1				Submitted By: COLD MILL - Josh Edwards				

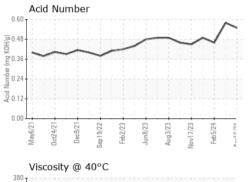
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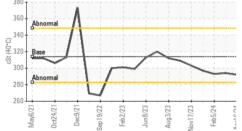


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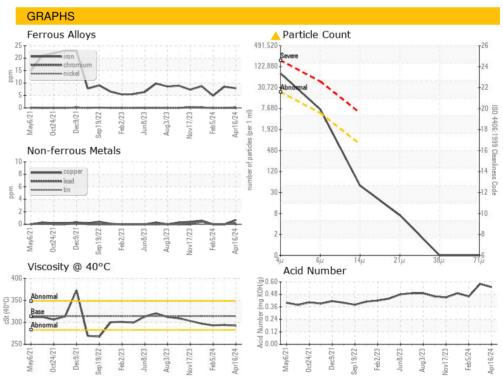








VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	292	294	293
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				suit :		
Bottom						



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 CONSTELLIUM 4805 SECOND STREET Sample No. : KFS0004479 Received : 18 Apr 2024 Lab Number : 06153061 Tested : 19 Apr 2024 MUSCLE SHOALS, AL Unique Number : 10983139 Diagnosed : 22 Apr 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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