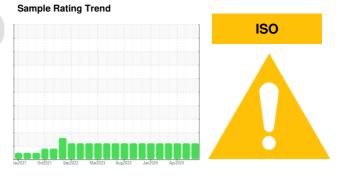


# **OIL ANALYSIS REPORT**

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

Gearbox

**CITGO COMPOUND EP 320 (3000 GAL)** 



## **DIAGNOSIS**

### Recommendation

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

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**

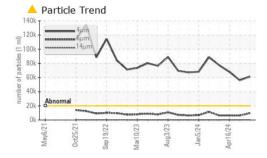
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

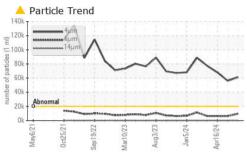
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KFS0004440	KFS0004442	KFS0004479
Sample Date		Client Info		13 Jun 2024	16 May 2024	16 Apr 2024
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINATION	V	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	13	11	8
Chromium	ppm	ASTM D5185m		<1	0	0
Nickel	ppm	ASTM D5185m	>15	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	0	0
Lead	ppm	ASTM D5185m	>100	<1	0	<1
Copper	ppm	ASTM D5185m		<1	0	<1
Tin	ppm	ASTM D5185m	>25	<1	0	0
Vanadium	ppm	ASTM D5185m	720	0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
	ррпп					
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		8	5	5
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		<1	0	<1
Magnesium	ppm	ASTM D5185m		<1	1	1
Calcium	ppm	ASTM D5185m		0	1	2
Phosphorus	ppm	ASTM D5185m		140	147	137
Zinc	ppm	ASTM D5185m		4	4	<1
Sulfur	ppm	ASTM D5185m		5621	6578	6670
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	1	<1	0
Sodium	ppm	ASTM D5185m		<1	0	2
Potassium	ppm	ASTM D5185m	>20	<1	0	2
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<u>▲</u> 61133	△ 56091	<b>△</b> 68081
Particles >6µm		ASTM D7647	>5000	9550	6365	6372
Particles >14µm		ASTM D7647	>640	60	47	42
Particles >21µm		ASTM D7647	>160	9	7	6
Particles >38μm		ASTM D7647	>40	1	0	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>23/20/13</b>	<b>2</b> 3/20/13	<b>△</b> 23/20/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

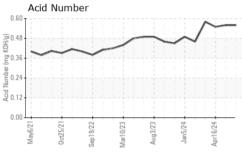


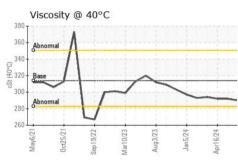
# **OIL ANALYSIS REPORT**

SAMPLE IMAGES









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
<b>Emulsified Water</b>	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	290	292	292

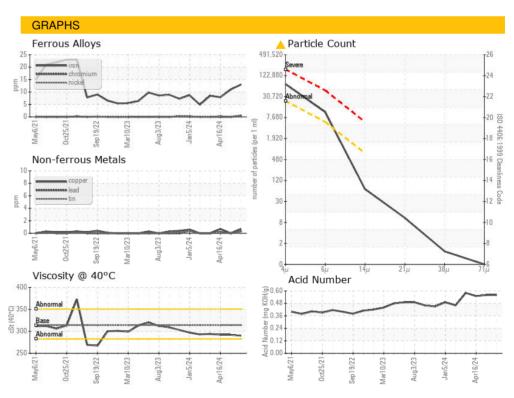
Color		口記 知 知 XF SNOW	So.th.5 Pantis
Bottom			

limit/base

current

history1

method







Certificate 12367

Laboratory Sample No.

: KFS0004440 Lab Number : 06211584

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** Unique Number : 11084448

: 17 Jun 2024 : 18 Jun 2024 Diagnosed

: 18 Jun 2024 - Don Baldridge Test Package : IND 2 ( Additional Tests: PrtCount )

Contact: Randy Nichols randall.nichols@constellium.com

T: (256)386-6956

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)

US 35661

**CONSTELLIUM** 4805 SECOND STREET

MUSCLE SHOALS, AL

history2