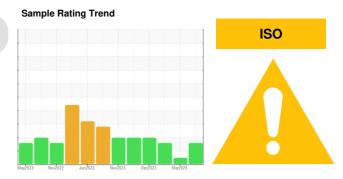


# **OIL ANALYSIS REPORT**

# **HOTLINE/120 MILL** 120 SCREWDOWN LUBE RESV 1415-014-0160

Gearbox

**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.

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		KFS0004566	KFS0002558	KFS0004631
Sample Date		Client Info		21 Jun 2024	22 Mar 2024	16 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	NORMAL	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	0	8	9
Chromium	ppm	ASTM D5185m	>15	0	<1	0
Nickel	ppm	ASTM D5185m	>15	0	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	1	5	5
Lead	ppm	ASTM D5185m	>100	0	2	<1
Copper	ppm	ASTM D5185m	>200	2	3	0
Tin	ppm	ASTM D5185m	>25	0	1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		4	6	8
Barium	ppm	ASTM D5185m		0	<1	1
Molybdenum	ppm	ASTM D5185m		0	<1	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		0	2	4
Calcium	ppm	ASTM D5185m		234	199	237
Phosphorus	ppm	ASTM D5185m		122	130	111
Zinc	ppm	ASTM D5185m		0	4	10
Sulfur	ppm	ASTM D5185m		6031	4557	4313
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<1	3	0
Sodium	ppm	ASTM D5185m		0	2	0
Potassium	ppm	ASTM D5185m	>20	1	2	0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<u> </u>	3080	<u>▲</u> 168069
Particles >6µm		ASTM D7647	>5000	<u></u> 55191	1678	<u>▲</u> 74120
Particles >14µm		ASTM D7647	>640	<u> </u>	286	<b>▲</b> 1763
Particles >21µm		ASTM D7647	>160	115	96	144
Particles >38µm		ASTM D7647	>40	4	15	1
Particles >71µm		ASTM D7647	>10	1	2	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u>4</u> 24/23/17	19/18/15	<u>△</u> 25/23/18
	TION	method	limit/base	current	history1	history2

Acid Number (AN)

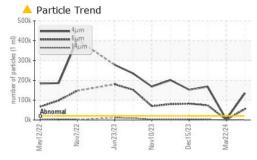
mg KOH/g ASTM D8045

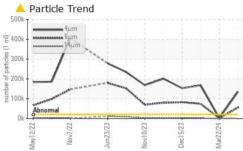
0.23

Submitted By: COLD MILL - Josh Edwards

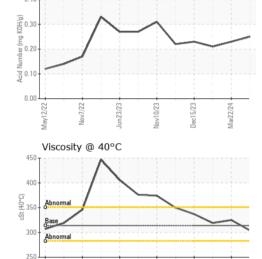


## **OIL ANALYSIS REPORT**



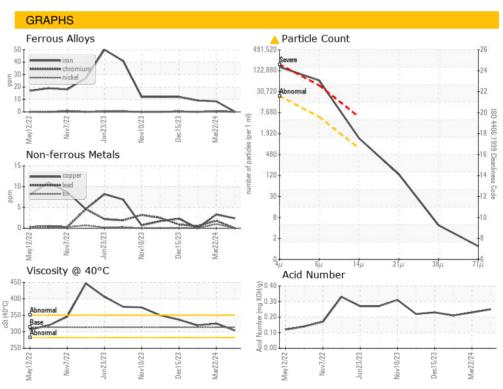


Acid Number



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	LIGHT	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	MILKY	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	0.2%	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	314	304	325	319
SAMPLE IMAGES		method	limit/base	current	history1	history2









Certificate 12367

Jov10/23

Laboratory Sample No.

Lab Number : 06219643 Unique Number : 11097840

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KFS0004566

Received **Tested** Diagnosed

: 25 Jun 2024 : 26 Jun 2024

: 26 Jun 2024 - Don Baldridge

4805 SECOND STREET MUSCLE SHOALS, AL US 35661

Contact: Joel Even joel.even@constellium.com

T: (256)740-7490

Test Package : IND 2 ( Additional Tests: PrtCount ) 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)

**CONSTELLIUM**