

# **OIL ANALYSIS REPORT**

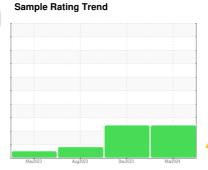
# ROLL SHOP

# 44 Farrel Waylube 8100-014-0001

Component

Gearbox

CITGO COMPOUND EP 220 (--- 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.

		May2023 Aug2023 Dac2023 Mar2024				
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KFS0004789	KFS0005227	KFS0003661
Sample Date		Client Info		26 Mar 2024	19 Dec 2023	30 Aug 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	ABNORMAL	ATTENTION
CONTAMINATION		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	36	5
Chromium	ppm	ASTM D5185m	>15	0	<1	0
Nickel	ppm	ASTM D5185m	>15	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	<u>▲</u> 17	<1
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	1	0	2
Tin	ppm	ASTM D5185m	>25	<1	0	<1
Vanadium	ppm	ASTM D5185m		0	<1	<1
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	<1	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		1	4	5
Calcium	ppm	ASTM D5185m		2	5	0
Phosphorus	ppm	ASTM D5185m		0	97	17
Zinc	ppm	ASTM D5185m		13	0	<1
Sulfur	ppm	ASTM D5185m		3054	2307	2677
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	2	4	<1
Sodium	ppm	ASTM D5185m		2	28	0
Potassium	ppm	ASTM D5185m	>20	2	6	3
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<u> </u>	<b>△</b> 95044	21849
Particles >6µm		ASTM D7647	>5000	<u> 59752</u>	<u>▲</u> 28076	1651
Particles >14μm		ASTM D7647	>640	<u>^</u> 5186	<u>▲</u> 775	23
Particles >21µm		ASTM D7647	>160	<u> </u>	69	5
Particles >38μm		ASTM D7647	>40	<u>^</u> 78	3	1
Particles >71μm		ASTM D7647	>10	6	1	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u>^</u> 25/23/20	<u>4</u> 24/22/17	22/18/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

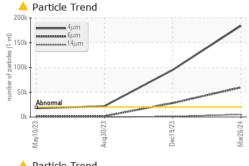
Acid Number (AN)

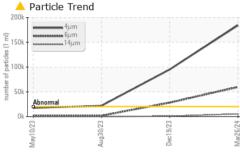
mg KOH/g ASTM D8045

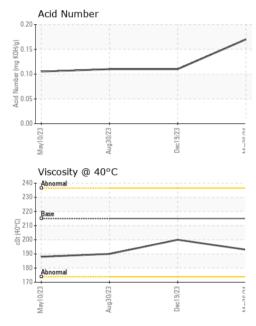
0.11



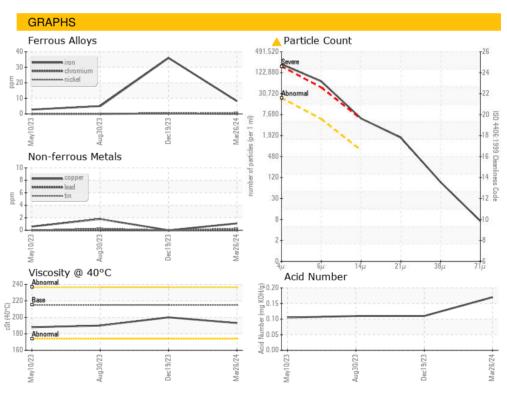
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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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
<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	215	193	200	190
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						







Laboratory Sample No. Lab Number : 06131996 Unique Number : 10951461

: KFS0004789

To discuss this sample report, contact Customer Service at 1-800-237-1369.

**Bottom** 

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

Test Package: IND 2 (Additional Tests: PrtCount)

Received **Tested** Diagnosed

: 28 Mar 2024 : 29 Mar 2024

: 02 Apr 2024 - Jonathan Hester

4805 SECOND STREET MUSCLE SHOALS, AL

US 35661 Contact: Randy Nichols

**CONSTELLIUM** 

randall.nichols@constellium.com 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)