

## **OIL ANALYSIS REPORT**

# Area **ROLL SHOP** 44 Farrel Waylube 8100-014-0001 Gearbox

Fluid 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

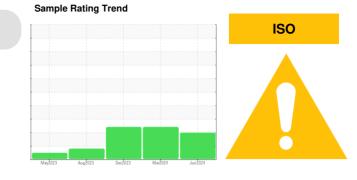
All component wear rates are normal.

### 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.



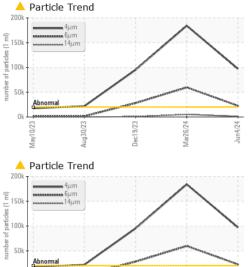
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KFS0004590	KFS0004789	KFS0005227
Sample Date		Client Info		04 Jun 2024	26 Mar 2024	19 Dec 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
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	26	8	36
Chromium	ppm	ASTM D5185m	>15	<1	0	<1
Nickel	ppm	ASTM D5185m	>15	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	<1	<b>1</b> 7
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m		2	1	0
Tin	ppm	ASTM D5185m	>25	0	<1	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		<1	0	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		<1	1	4
Calcium	ppm	ASTM D5185m		0	2	5
Phosphorus	ppm	ASTM D5185m		13	0	97
Zinc	ppm	ASTM D5185m		3	13	0
Sulfur	ppm	ASTM D5185m		2108	3054	2307
CONTAMINANTS	le le	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	2	2	4
Sodium	ppm	ASTM D5185m		1	2	28
Potassium	ppm	ASTM D5185m	>20	3	2	6
FLUID CLEANLINE	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<b>97296</b>	▲ 184114	▲ 95044
Particles >6µm		ASTM D7647	>5000	<u> </u>	▲ 59752	<b>A</b> 28076
Particles >14µm		ASTM D7647	>640	<b>1</b> 031	<b>▲</b> 5186	A 775
Particles >21µm		ASTM D7647		<u>^</u> 259	▲ 1464	69
Particles >38µm		ASTM D7647	>40	15	▲ 78	3
Particles >71µm		ASTM D7647		2	6	1
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u> </u>	▲ 25/23/20	▲ 24/22/17
FLUID DEGRADA	ΓΙΟΝ	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.20	0.17	0.11
	my non/y	ACTIVI DOUND		0.20	0.17	0.11

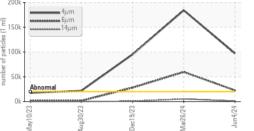
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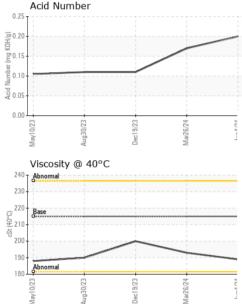
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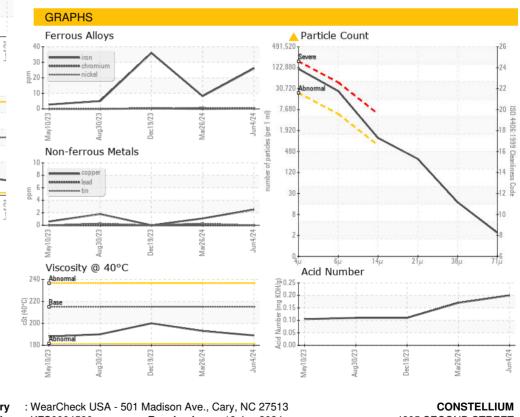
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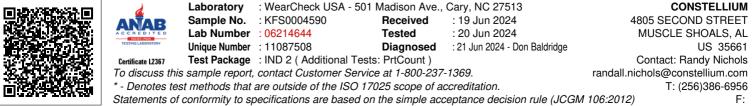






VISUAL		method	limit/base	current	history1	history2
VISUAL		methou	IIIIII/Dase	Current	history i	TIIStOLYZ
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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 PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	215	189	193	200
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color						
Bottom						





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