

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

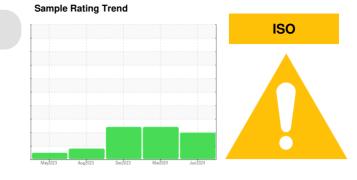
All component wear rates are normal.

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.



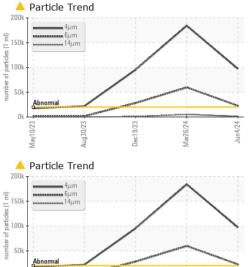
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		KFS0004590	KFS0004789	KFS0005227
Sample Date		Client Info		04 Jun 2024	26 Mar 2024	19 Dec 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				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	1 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	97296	▲ 184114	▲ 95044
Particles >6µm		ASTM D7647	>5000	<u> </u>	▲ 59752	A 28076
Particles >14µm		ASTM D7647	>640	1 031	▲ 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

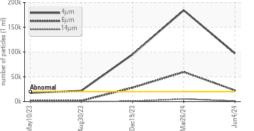
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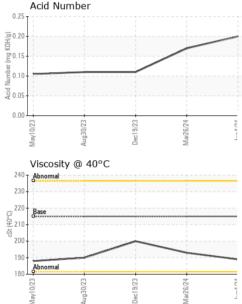
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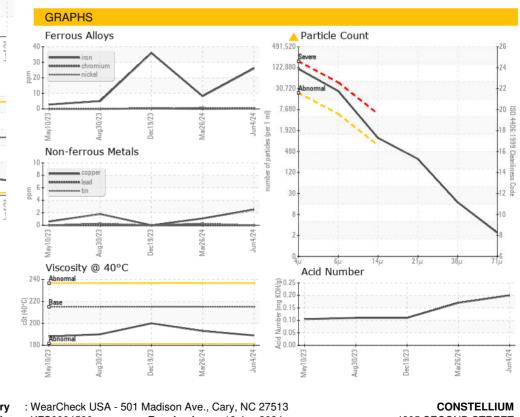
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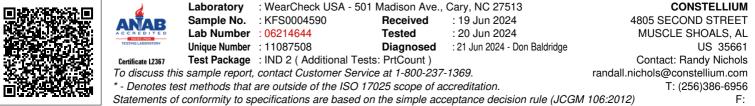






VISUAL		method	limit/base	current	history1	history2
VISUAL		methou	IIIIII/Dase	Current	history i	TIIStOLYZ
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*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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