

## **OIL ANALYSIS REPORT**

Sample Rating Trend

VISCOSITY

## Area ROLL SHOP 28N Farrel Waylube 8100-002-0001 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

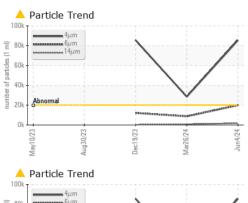
The oil viscosity is lower than normal. Confirm oil type. The AN level is acceptable for this fluid.

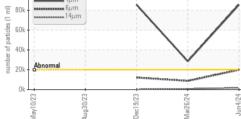
Sample Date Machine Age Oil Age Oil Changed Sample Status CONTAMINATION Water WEAR METALS Iron Chromium Nickel Titanium Silver	hrs hrs	method Client Info Client Info Client Info Client Info Method	limit/base	Current KFS0004584 04 Jun 2024 0 0 N/A ABNORMAL	history1 KFS0004785 26 Mar 2024 0 0 N/A ATTENTION	history2 KFS0005232 19 Dec 2023 0 0 N/A
Water WEAR METALS Iron Chromium Nickel Titanium Silver	hrs N ppm	Client Info Client Info Client Info Client Info method	limit/base	04 Jun 2024 0 0 N/A	26 Mar 2024 0 0 N/A	19 Dec 2023 0 0 N/A
Machine Age Oil Age Oil Changed Sample Status CONTAMINATION Water WEAR METALS Iron Chromium Nickel Titanium Silver	hrs N ppm	Client Info Client Info Client Info method	limit/base	0 0 N/A	0 0 N/A	0 0 N/A
Oil Age Oil Changed Sample Status CONTAMINATION Water WEAR METALS Iron Chromium Nickel Titanium Silver	hrs N ppm	Client Info Client Info method	limit/base	0 N/A	0 N/A	0 N/A
Oil Changed Sample Status CONTAMINATION Water WEAR METALS Iron Chromium Nickel Titanium Silver	N ppm	Client Info method	limit/base	N/A	N/A	N/A
Sample Status CONTAMINATIO Water WEAR METALS Iron Chromium Nickel Titanium Silver	ppm	method	limit/base			
CONTAMINATION Water WEAR METALS Iron Chromium Nickel Titanium Silver	ppm		limit/base	ABNORMAL	ATTENTION	
Water WEAR METALS Iron Chromium Nickel Titanium Silver	ppm		limit/base			ABNORMAL
WEAR METALS Iron Chromium Nickel Titanium Silver		WC Method		current	history1	history2
Iron Chromium Nickel Titanium Silver			>0.2	NEG	NEG	NEG
Chromium Nickel Titanium Silver		method	limit/base	current	history1	history2
Nickel Titanium Silver	0.0.00	ASTM D5185m	>200	69	19	111
Titanium Silver	ppm	ASTM D5185m	>15	<1	0	<1
Silver	ppm	ASTM D5185m	>15	0	1	0
	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	<1	▲ 52
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>200	2	4	<1
Tin	ppm	ASTM D5185m	>25	0	<1	0
Vanadium	ppm	ASTM D5185m	-	0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		1	0	7
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	2
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		<1	2	3
Calcium	ppm	ASTM D5185m		0	20	81
Phosphorus	ppm	ASTM D5185m		116	0	113
Zinc	ppm	ASTM D5185m		16	43	13
Sulfur	ppm	ASTM D5185m		1953	2529	2753
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	23	<1	21
Sodium	ppm	ASTM D5185m		0	2	11
Potassium	ppm	ASTM D5185m	>20	1	2	2
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<b>A</b> 85495	28525	▲ 85666
Particles >6µm		ASTM D7647	>5000	<u> </u>	8735	<b>1</b> 2121
Particles >14µm		ASTM D7647	>640	<b>4</b> 1751	746	266
		ASTM D7647	>160	<u> </u>	194	63
Particles >21µm		ASTM D7647	>40	<u> </u>	17	4
•		ASTM D7647	>10	4	3	0
Particles >38µm		ISO 4406 (c)	> 21/10/16			A 04/01/1F
Particles >38μm Particles >71μm		130 4400 (C)	>21/19/16	<u> </u>	22/20/17	▲ 24/21/15
Particles >21µm Particles >38µm Particles >71µm Oil Cleanliness FLUID DEGRADA		method	limit/base		22/20/17 history1	A 24/21/15 history2
Particles >38µm Particles >71µm Oil Cleanliness	TION mg KOH/g	( )			·	

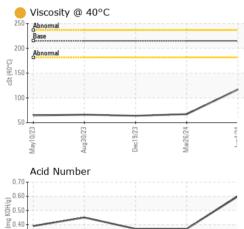
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# **OIL ANALYSIS REPORT**







Dec19/23 -

Certificate 12367

vug30/23

e 0.30

0.10

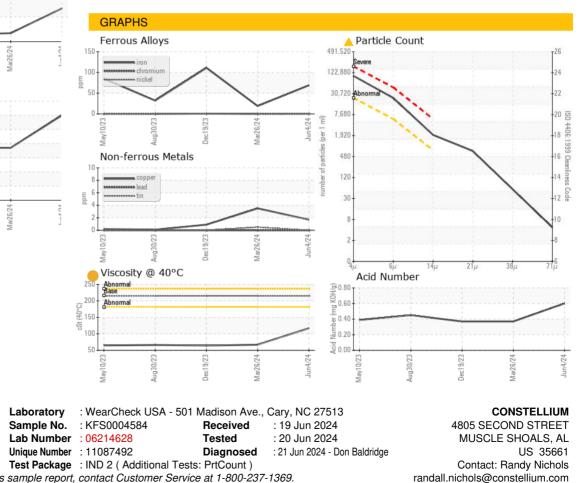
0.00

May10/23

Acid Ni 0.20

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	LIGHT	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	<mark> </mark> 117	67.1	63.9
SAMPLE IMAGES	;	method	limit/base	current	history1	history2
Color						

Bottom



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)

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