**WEAR** CONTAMINATION **FLUID CONDITION** 

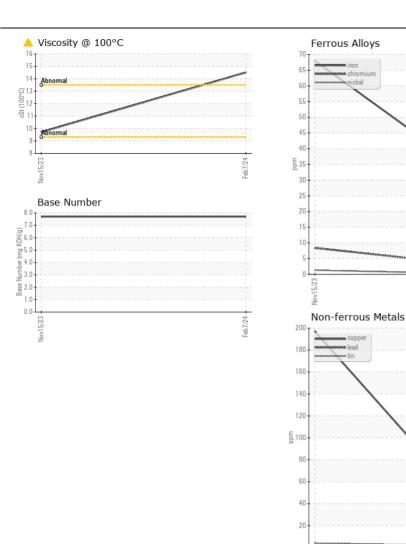
**NORMAL NORMAL ATTENTION** 

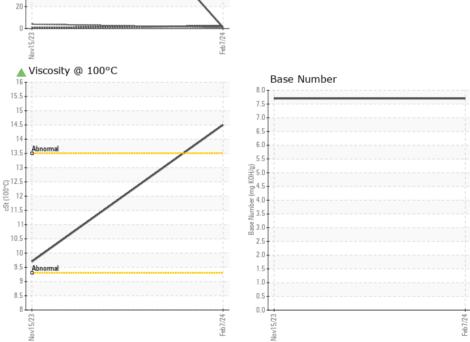
Machine Id

124

Component Diesel Engine

CITGO CITGO 10W30 ( GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC06083232	WC06013212	
	Sample Date		Client Info		07 Feb 2024	15 Nov 2023	
	Machine Age	mls	Client Info		466476	33888	
	Oil Age	mls	Client Info		0	33888	
	Filter Age	mls	Client Info		0	33888	
	Oil Changed		Client Info		N/A	Not Changd	
	Filter Changed		Client Info		N/A	Not Changd	
	Sample Status				ATTENTION	NORMAL	
MEAD	lvon		ACTM DE10Em	. 100	04	60	
VEAR	Iron	ppm	ASTM D5185m		24	68	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		2	8	
	Nickel	ppm	ASTM D5185m	>4	0	1	
	Titanium	ppm	ASTM D5185m	0	82	<1	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m		2	159	
	Lead	ppm	ASTM D5185m		2	<1	
	Copper	ppm	ASTM D5185m		1	197	
	Tin	ppm	ASTM D5185m	>15	<1	4	
	Vanadium	ppm	ASTM D5185m	NONE	1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	11	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	1	340	
	Fuel		WC Method	>5	<1.0	<1.0	
	Water		WC Method	>0.2	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	1.3	0.6	
	Nitration	Abs/cm	*ASTM D7624	>20	9.9	9.4	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.4	23.5	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	<b>Emulsified Water</b>	scalar	*Visual	>0.2	NEG	NEG	
LUID CONDITION	Sodium	ppm	ASTM D5185m		4	5	
LOID CONDITION	Boron	ppm	ASTM D5185m		94	42	
The oil viscosity is higher than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.	Barium	ppm	ASTM D5185m		0	10	
	Molybdenum	ppm	ASTM D5185m		9	44	
	Manganese	ppm	ASTM D5185m		<1	4	
	Magnesium	ppm	ASTM D5185m		428	504	
	Calcium	ppm	ASTM D5185m		1662	1715	
	Phosphorus	ppm	ASTM D5185m		999	738	
	Zinc	ppm	ASTM D5185m		1186	890	
	Sulfur	ppm	ASTM D5185m		3554	2296	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.3	24.2	
	Base Number (BN)		ASTM D2896	/25	7.7	7.7	
	Dasc Hullibel (DIV)	my Kony	10 HVI D2030		1.1	1.1	









Certificate L2367

Laboratory Sample No.

: WC06083232 Lab Number : 06083232 Unique Number : 10870677 Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 08 Feb 2024 : 08 Feb 2024 **Tested** 

Diagnosed : 09 Feb 2024 - Don Baldridge **LONNIE SONGER** 

1820 SHELTON MISSION RD GREENEVILLE, TN US 37743

Contact: LONNIE SONGER

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)

T:

F: