

# **OIL ANALYSIS REPORT**

Sample Rating Trend

**NORMAL** 

# City of Raleigh (S/N L06430H572619)

{not provided} (--- GAL)

Front Diesel Engine

ט	IΑ	G	M	J	SIS	

### Recommendation

Resample at the next service interval to monitor. ( Customer Sample Comment: Looking for diesel in oil)

All component wear rates are normal.

### Contamination

Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the

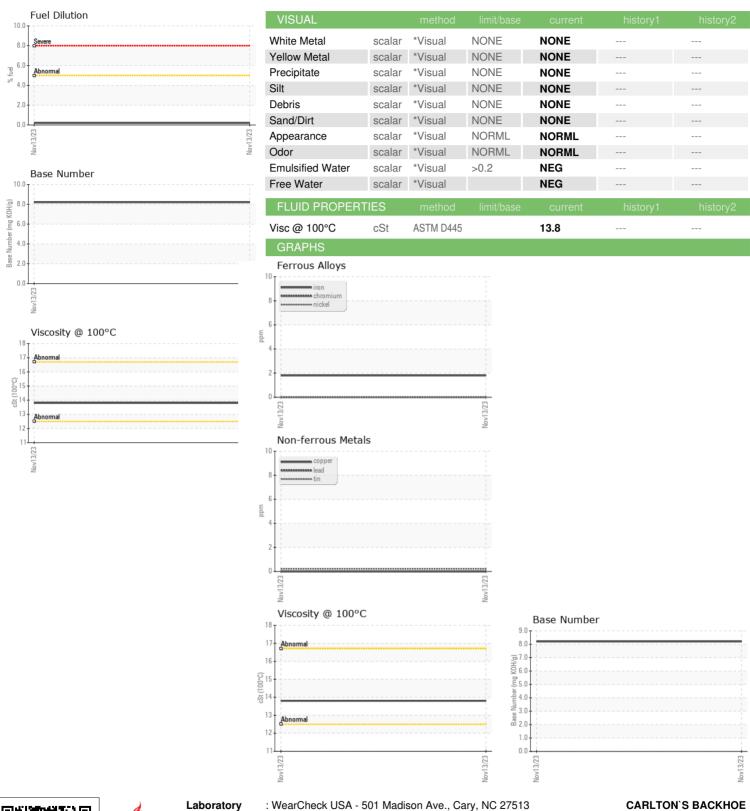
### **Fluid Condition**

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

		,		Nov2023	,	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		JR0191113		
Sample Date		Client Info		13 Nov 2023		
Machine Age	hrs	Client Info		2146		
Oil Age	hrs	Client Info		0		
Oil Changed		Client Info		N/A		
Sample Status				NORMAL		
CONTAMINATIO	V	method	limit/base	current	history1	history2
Water		WC Method	>0.2	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	nnm	ASTM D5185m	>100	2		
Chromium	ppm	ASTM D5185m	>100	0		
Nickel	ppm	ASTM D5185m	>4	0		
Titanium	ppm	ASTM D5185m	27	0		
Silver	ppm	ASTM D5185m	>3	0		
Aluminum	ppm	ASTM D5185m	>20	2		
Lead	ppm	ASTM D5185m	>40	0		
Copper	ppm	ASTM D5185m	>330	0		
Tin	ppm	ASTM D5185m	>15	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		52		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		72		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		437		
Calcium	ppm	ASTM D5185m		1703		
Phosphorus	ppm	ASTM D5185m		1093		
Zinc	ppm	ASTM D5185m		1327		
Sulfur	ppm	ASTM D5185m		3731		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	5		
Sodium	ppm	ASTM D5185m		0		
Potassium	ppm	ASTM D5185m	>20	<1		
Fuel	%	ASTM D3524	>5	0.2		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.1		
Nitration	Abs/cm	*ASTM D7624	>20	6.2		
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.3		
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	12.9		
Base Number (BN)	mg KOH/g	ASTM D2896		8.2		



## **OIL ANALYSIS REPORT**







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** 

: JR0191113 : 06007496 : 10741258

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 14 Nov 2023 Diagnosed : 20 Nov 2023

Diagnostician : Sean Felton

Test Package : CONST (Additional Tests: FUELDILUTION, PercentFuel, TBN) 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: (704)547-0211

CHARLOTTE, NC

US 28269

F:

Contact: LEO

9550 STATESVILLE ROAD