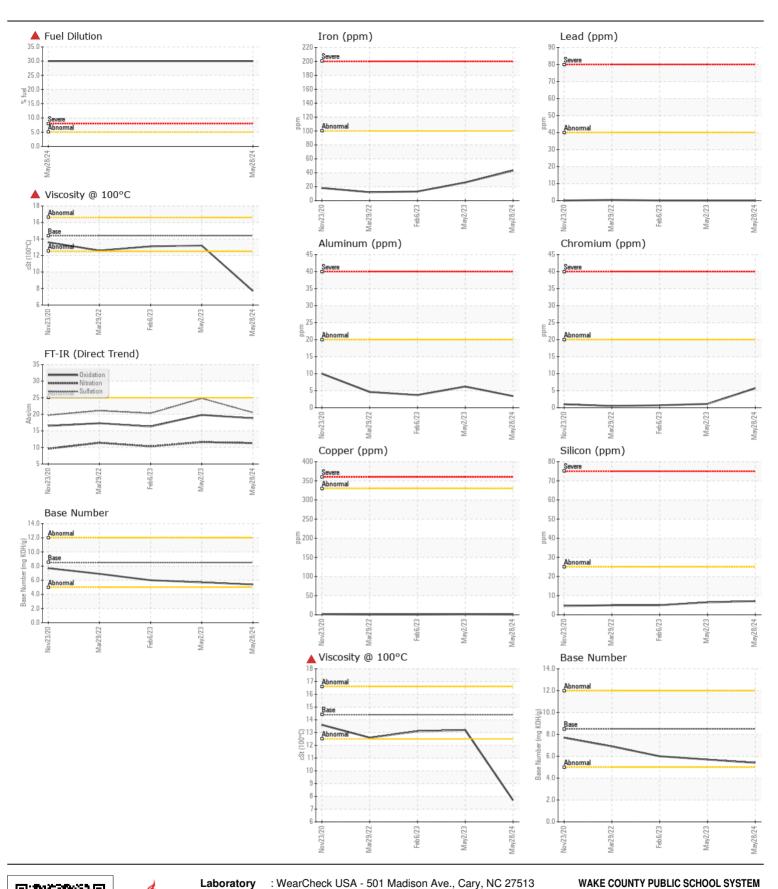
WEAR CONTAMINATION FLUID CONDITION

NORMAL SEVERE SEVERE

Machine Id

1629 Component

Diesel Engine							
DIESEL ENGINE OIL SAE 15W40 (QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advice that you should the fuel injection eveters. We recommend	Sample Number		Client Info		WC0932864	WC0806688	WC0772975
We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been	Sample Date		Client Info		28 May 2024	02 May 2023	06 Feb 2023
done. We recommend an early resample to monitor this condition.	Machine Age	mls	Client Info		184117	174071	170447
Please specify the component make and model with your next sample.	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
	Filter Changed		Client Info		Not Changd	Not Changd	Not Changd
	Sample Status				SEVERE	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	43	26	13
WEAT	Chromium	ppm	ASTM D5185m		6	1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	<1	0
	Titanium	ppm	ASTM D5185m		0	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		3	6	4
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m	>330	<1	2	<1
	Tin	ppm	ASTM D5185m		0	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTANUNATION					_		_
CONTAMINATION	Silicon	ppm	ASTM D5185m		7	6	5
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Potassium	ppm	ASTM D5185m		<1	5	2
	Fuel	%	ASTM D3524		▲ 30.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	0/	WC Method	. 0	NEG	NEG	NEG
	Soot % Nitration	% Abs/cm	*ASTM D7844 *ASTM D7624	>3	0.9 11.3	0.9 11.6	0.6 10.3
	Sulfation	Abs/.1mm	*ASTM D7024		20.5	24.8	20.3
	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		*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	4	2
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		26	16	17
oil. Fuel is present in the oil and is lowering the viscosity. The oil is no	Barium	ppm	ASTM D5185m		0	2	0
longer serviceable due to the presence of contaminants.	Molybdenum	ppm	ASTM D5185m	100	55	75	64
·	Manganese	ppm	ASTM D5185m	450	<1	<1	1
	Magnesium	ppm	ASTM D5185m		81	105	65
	Calcium	ppm	ASTM D5185m		1306	2281	2036
	Phosphorus	ppm	ASTM D5185m		662	1027	901
	Zinc	ppm	ASTM D5185m		761	1237	1137
	Sulfur	ppm	ASTM D5185m		2542	3761	3541
	Oxidation	Abs/.1mm	*ASTM D7414		18.8	19.8	16.3
	Base Number (BN)		ASTM D2896		5.4	5.7	6.0
	Visc @ 100°C	cSt	ASTM D445	14.4	7.7	13.2	13.1





Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06195132

: WC0932864

Received **Tested** Unique Number : 11057255

: 04 Jun 2024 Diagnosed Test Package: MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN)

: 30 May 2024

: 04 Jun 2024 - Wes Davis

RALEIGH, NC US 27610 Contact: DEVIN WEBER dweber@wcpss.net

1551 ROCK QUARRY ROAD

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: (919)856-8076 F: x: