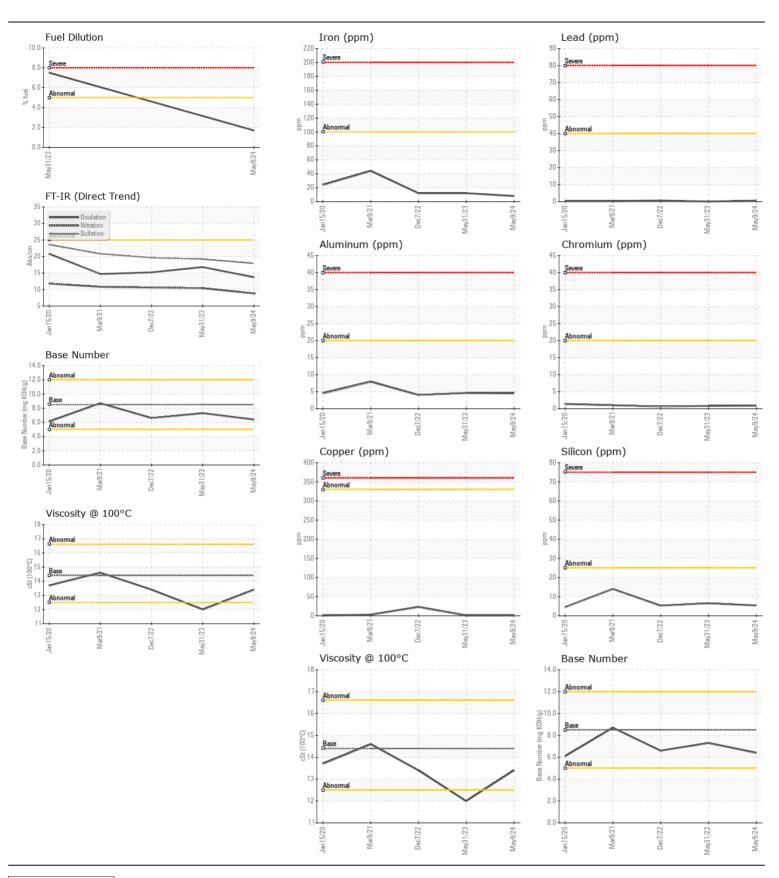
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

Machine Id 1399

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0932856	WC0821290	WC0761248
No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the component make and model with your next sample.	Sample Date		Client Info		09 May 2024	31 May 2023	07 Dec 202
	Machine Age	mls	Client Info		228806	214426	204255
	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 Chang
	Filter Changed		Client Info		Not Changd	Not Changd	Not Chang
	Sample Status				NORMAL	ABNORMAL	NORMAL
VEAR	Iron	ppm	ASTM D5185m	>100	8	12	12
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	<1
	Nickel	ppm	ASTM D5185m		<1	0	<1
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m	>3	<1	0	0
	Aluminum	ppm	ASTM D5185m	>20	4	5	4
	Lead	ppm	ASTM D5185m	>40	<1	0	<1
	Copper	ppm	ASTM D5185m	>330	<1	<1	23
	Tin	ppm	ASTM D5185m	>15	1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	5	6	5
SONTAIIINATION	Potassium	ppm	ASTM D5185m		4	<1	2
Light fuel dilution occurring. No other contaminants were detected in the oil.	Fuel	%	ASTM D3524	>5	1.7	<u>^</u> 7.5	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.3	0.5	0.6
	Nitration	Abs/cm	*ASTM D7624	>20	8.8	10.4	10.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	17.9	19.2	19.6
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	2	2	3
	Boron	ppm	ASTM D5185m	250	63	30	28
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m	10	0	0	1
	Molybdenum	ppm	ASTM D5185m	100	93	75	68
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m	450	67	140	36
	Calcium	ppm	ASTM D5185m	3000	2219	2070	1881
	Phosphorus	ppm	ASTM D5185m	1150	1125	968	859
	Zinc	ppm	ASTM D5185m	1350	1268	1160	1067
	Sulfur	ppm	ASTM D5185m	4250	4212	3896	3646
		A la a / d	*ASTM D7414	\25	13.7	16.8	15.2
	Oxidation	Abs/.1mm	AOTIVI D7414	725	.0.,	10.0	
	Oxidation Base Number (BN)				6.4	7.3	6.6





Certificate L2367

Laboratory Sample No. Lab Number : 06189062

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0932856

Received Unique Number : 11045814

: 23 May 2024 **Tested** Diagnosed Test Package : MOB 1 (Additional Tests: PercentFuel, TBN)

: 28 May 2024

: 28 May 2024 - Wes Davis

WAKE COUNTY PUBLIC SCHOOL SYSTEM 1551 ROCK QUARRY ROAD RALEIGH, NC

US 27610 Contact: DEVIN WEBER dweber@wcpss.net T: (919)856-8076

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)

Contact/Location: DEVIN WEBER - WCPRAL

F: x: