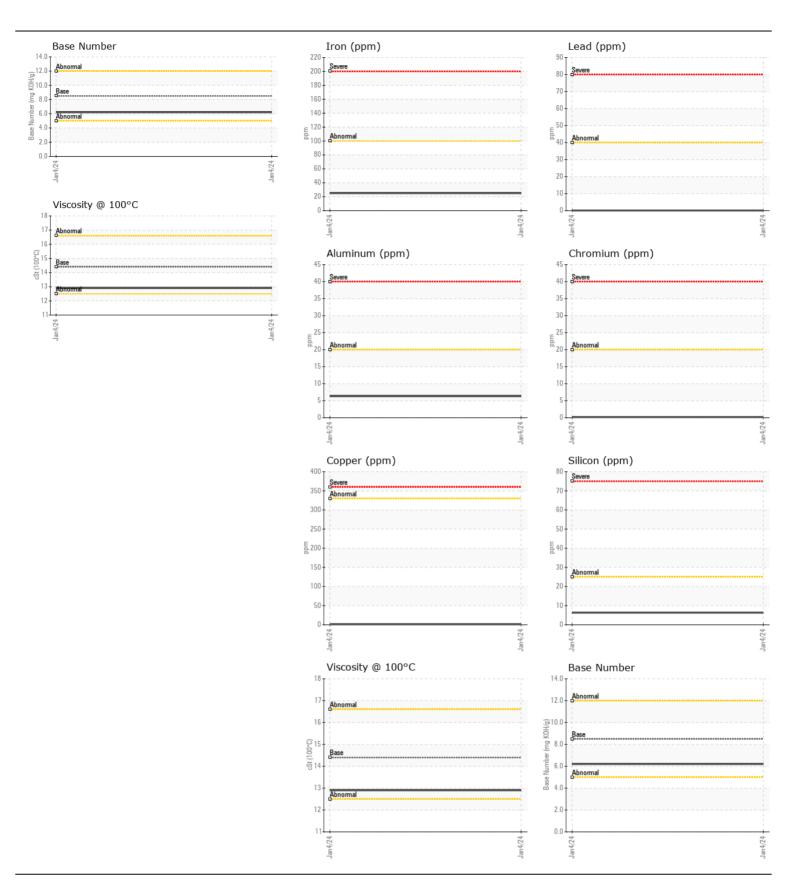
WEAR CONTAMINATION **FLUID CONDITION** **NORMAL NORMAL NORMAL**

Machine Id

1855

Component Diesel Engine

DIESEL ENGINE OIL SAE 15W40 (QTS)					.,		
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0870669		
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.	Sample Date		Client Info		04 Jan 2024		
	Machine Age	mls	Client Info		4412		
	Oil Age	mls	Client Info		0		
	Filter Age	mls	Client Info		0		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Not Changd		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185m	>100	25		
	Chromium	ppm	ASTM D5185m	>20	<1		
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m		6		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		1		
	Tin	ppm	ASTM D5185m		0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6		
CONTAMINATION	Potassium	ppm	ASTM D5185m		6		
There is no indication of any contamination in the oil.	Fuel	ppiii	WC Method		<1.0		
	Water		WC Method		NEG		
	Glycol		WC Method	70.L	NEG		
	Soot %	%	*ASTM D7844	\3	0.7		
	Nitration	Abs/cm	*ASTM D7624	>20	10.3		
	Sulfation	Abs/.1mm	*ASTM D7415		20.4		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water		*Visual	>0.2	NEG		
ELUID CONDITION	Cadium		ACTM DE10Em	. 150	•		
FLUID CONDITION	Sodium Boron	ppm ppm	ASTM D5185m ASTM D5185m		0 25		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium		ASTM D5185m		0		
		ppm	ASTM D5185m		82		
	Molybdenum Manganese	ppm	ASTM D5185m	100			
	Magnesium	ppm	ASTM D5185m	150	0 152		
	Calcium	ppm	ASTM D5185m	3000	2018		
	Phosphorus	ppm	ASTM D5185m		982		
	Zinc	ppm	ASTM D5185m		982 1186		
	Sulfur	ppm	ASTM D5185m				
	Oxidation	ppm Abs/1mm	*ASTM D7414		3712 16.5		
	Base Number (BN)	Abs/.1mm	ASTM D7414 ASTM D2896		6.2		
	Visc @ 100°C	cSt	ASTM D2696 ASTM D445		12.9		
	VISC @ 100 C	COL	MOTIVI D440	17.4	12.9		=





Certificate L2367

Laboratory Sample No. Lab Number

: 06059890 : 10831272 **Unique Number**

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0870669 Recieved : 12 Jan 2024 Diagnosed : 16 Jan 2024

Diagnostician : Wes Davis Test Package : MOB 1 (Additional Tests: 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)

WAKE COUNTY PUBLIC SCHOOL SYSTEM

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

F: x: