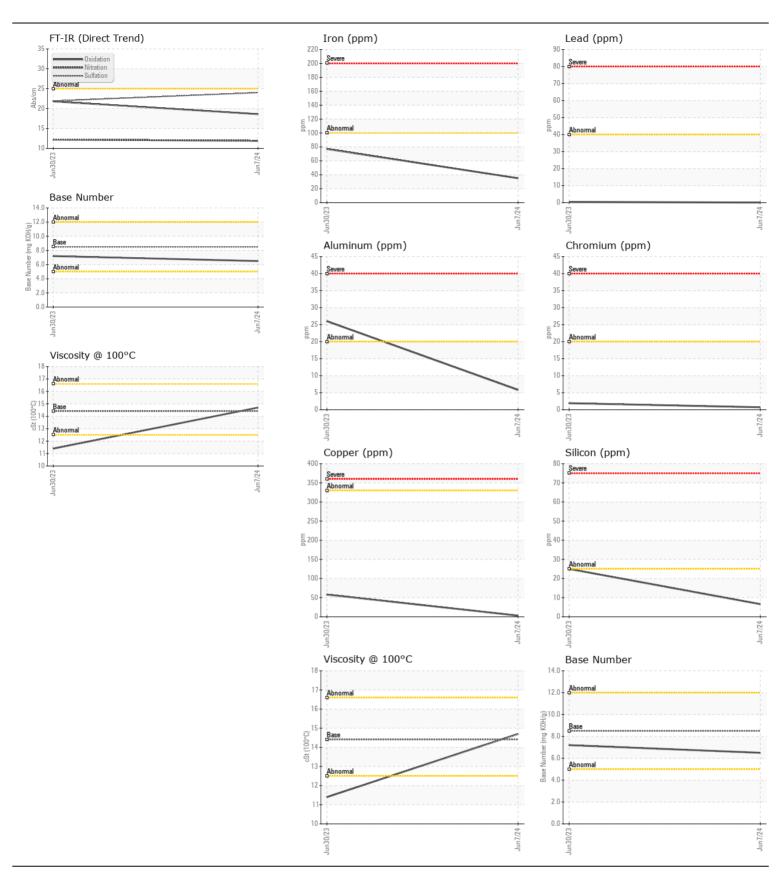
**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL NORMAL NORMAL** 

Machine Id

1816
Component
Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.	Sample Number		Client Info		WC0948970	WC0821295	
	Sample Date		Client Info		07 Jun 2024	30 Jun 2023	
	Machine Age	mls	Client Info		0	8389	
	Oil Age	mls	Client Info		0	0	
	Filter Age	mls	Client Info		0	0	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Not Changd	Not Changd	
	Sample Status				NORMAL	ABNORMAL	
/EAR	Iron	ppm	ASTM D5185m	>100	35	77	
	Chromium	ppm	ASTM D5185m		<1	2	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	<1	
	Titanium	ppm	ASTM D5185m		0	<1	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m		6	26	
	Lead	ppm	ASTM D5185m		0	<1	
	Copper	ppm	ASTM D5185m		3	58	
	Tin	ppm	ASTM D5185m		0	<1	
	Vanadium	ppm	ASTM D5185m		0	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
ONITAMINIATION	Silicon		ASTM D5185m	. 05	7	O.F.	
ONTAMINATION		ppm			7	25	
There is no indication of any contamination in the oil.	Potassium Fuel	ppm	ASTM D5185m		4	<u>▲</u> 127	
			WC Method		<1.0	▲ 2.8	
	Water		WC Method WC Method	>0.2	NEG NEG	NEG NEG	
	Glycol Soot %	%	*ASTM D7844	. 0	1.3	0.5	
	Nitration	Abs/cm	*ASTM D7624	>20	11.9	12.2	
	Sulfation	Abs/.1mm	*ASTM D7024		24.0	21.9	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
			*Visual	NORML	NORML	NORML	
	Appearance Odor	scalar scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water		*Visual	>0.2	NEG	NEG	
<u></u>	Linuisilieu vvalei		vioual			IVLG	
LUID CONDITION	Sodium	ppm	ASTM D5185m	>158	5	<b>△</b> 39	
	Boron	ppm	ASTM D5185m	250	20	27	
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	
	Molybdenum	ppm	ASTM D5185m	100	86	56	
	Manganese	ppm	ASTM D5185m		<1	7	
	Magnesium	ppm	ASTM D5185m	450	197	773	
	Calcium	ppm	ASTM D5185m	3000	2155	1331	
	Phosphorus	ppm	ASTM D5185m	1150	1075	695	
	Zinc	ppm	ASTM D5185m	1350	1279	905	
	Sulfur	ppm	ASTM D5185m	4250	4053	2662	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	18.6	21.8	
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	6.5	7.2	
	Visc @ 100°C	cSt	ASTM D445		14.7	11.4	





Certificate L2367

Laboratory Sample No.

Lab Number : 06220876

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0948970

**Tested** Unique Number : 11099073 Diagnosed

Received : 26 Jun 2024 : 27 Jun 2024

: 27 Jun 2024 - Wes Davis

1551 ROCK QUARRY ROAD RALEIGH, NC US 27610

WAKE COUNTY PUBLIC SCHOOL SYSTEM

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

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)

F: x: