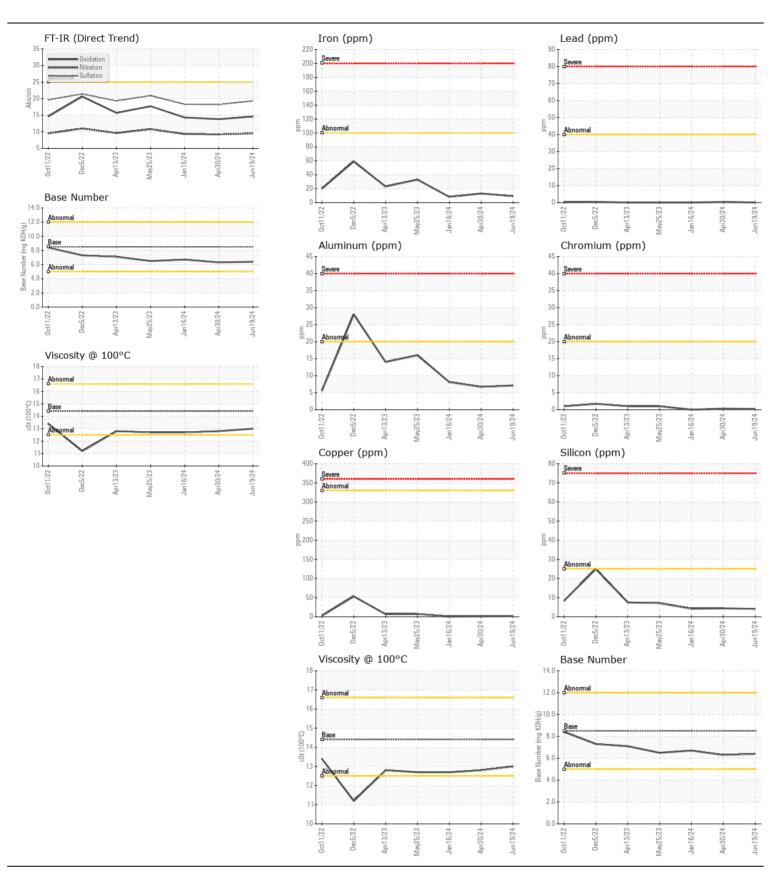
WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

Machine Id 1802

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0949001	WC0932889	WC0870822
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.	Sample Date		Client Info		19 Jun 2024	30 Apr 2024	16 Jan 202
	Machine Age	mls	Client Info		53638	50693	40147
	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	NORMAL	NORMAL
MEAD	lron .	nnm	ASTM D5185m	. 100	•	13	8
WEAR	Iron	ppm			9		
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m		<1	<1	0
	Nickel	ppm	ASTM D5185m ASTM D5185m	>4	0	0	<1
	Titanium	ppm		0	0	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		7	7	8
	Lead	ppm	ASTM D5185m ASTM D5185m		0 2	<1	0
	Copper Tin	ppm	ASTM D5185m		0	0	<1
	Vanadium	ppm	ASTM D5185m	>10	0	<1	0
	White Metal	ppm scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
<u></u>		Scalai	Visuai	NONL	INOINE	INOINL	INOINL
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	4	4
Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	13	12	10
	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.4	0.3	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	9.5	9.2	9.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.3	18.2	18.3
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	~44	3	3	2
LOID CONDITION	Boron	ppm	ASTM D5185m		50	45	48
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		0	0	0
	Molybdenum	ppm	ASTM D5185m		86	90	80
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m	450	87	73	109
	Calcium	ppm	ASTM D5185m		1982	2387	2034
	Phosphorus	ppm	ASTM D5185m		901	1149	1026
	Zinc	ppm	ASTM D5185m		1203	1381	1197
	Sulfur	ppm	ASTM D5185m		3326	4745	4135
	Oxidation	Abs/.1mm	*ASTM D7414		14.6	13.8	14.3
	Base Number (BN)				6.4	6.3	6.7
	()	, ,					





Certificate L2367

Laboratory Sample No. Lab Number : 06220936

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

: WC0949001

Tested Unique Number: 11099133

Received : 26 Jun 2024 : 27 Jun 2024 Diagnosed

: 27 Jun 2024 - Wes Davis

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

US 27610 Contact: DEVIN WEBER dweber@wcpss.net

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)

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