WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

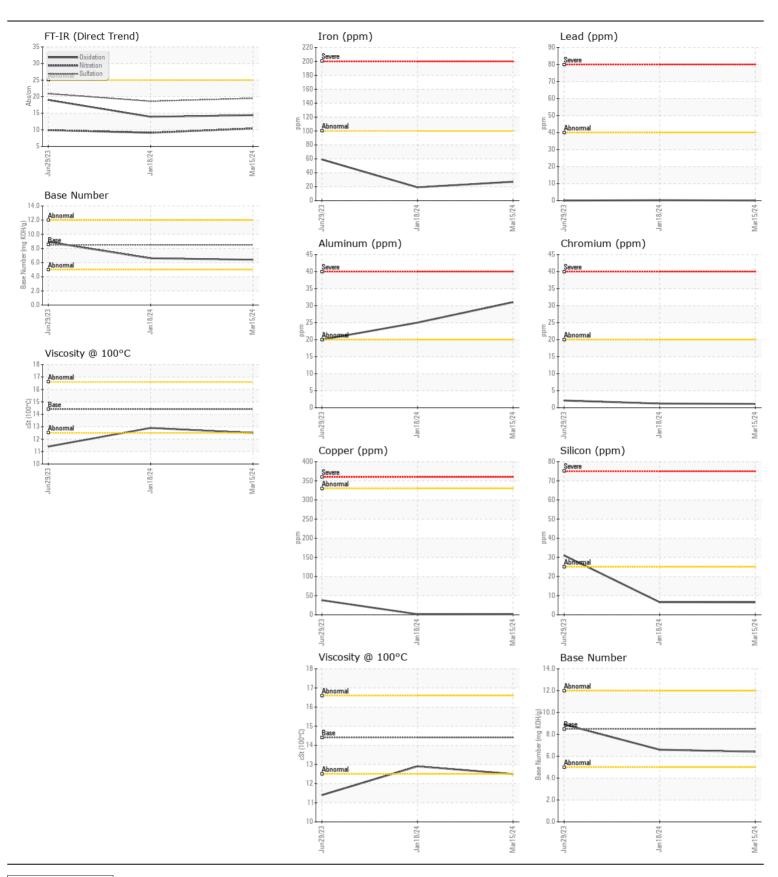
Machine Id

INTERNATIONAL 1809

Component

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0906119	WC0870817	WC082139
Resample at the next service interval to monitor.	Sample Date		Client Info		15 Mar 2024	18 Jan 2024	29 Jun 202
	Machine Age	mls	Client Info		24427	19968	4875
	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	Changed	Not Chang
	Sample Status				NORMAL	NORMAL	ABNORMA
VEAR	Iron	ppm	ASTM D5185m	>100	27	19	59
	Chromium	ppm	ASTM D5185m		1	1	2
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		0	<1	0
	Titanium	ppm	ASTM D5185m		0	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		31	25	20
	Lead	ppm	ASTM D5185m		0	<1	0
	Copper	ppm	ASTM D5185m		2	1	38
	Tin	ppm	ASTM D5185m		0	<1	0
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	nnm	ASTM D5185m	. 25	e	7	<u></u> 31
CONTAMINATION	Potassium	ppm	ASTM D5185m		6 68	50	73
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.	Fuel	ppm	WC Method		<1.0	<1.0	1.7
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	70.2	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	\ 3	0.5	0.4	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	10.4	9.1	9.9
	Sulfation	Abs/.1mm	*ASTM D7415		19.5	18.6	20.9
	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		*Visual	>0.2	NEG	NEG	NEG
LUID CONDITION	Sodium	nnm	ASTM D5185m	_150	2	1	6
LOID CONDITION	Boron	ppm	ASTM D5185m		40	48	41
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	6
	Molybdenum	ppm ppm	ASTM D5185m		81	94	53
	Manganese	ppm	ASTM D5185m	100	1	<1	6
	Magnesium	ppm	ASTM D5185m	450	120	157	840
	Calcium	ppm	ASTM D5185m		2054	2027	1356
	Phosphorus	ppm	ASTM D5185m		1022	1017	811
	Zinc	ppm	ASTM D5185m		1205	1236	992
	Sulfur	ppm	ASTM D5185m		4050	3615	3108
	Oxidation	Abs/.1mm	*ASTM D7414		14.4	13.9	19.0
	Base Number (BN)				6.4	6.6	8.9
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Certificate L2367

Laboratory Sample No. Unique Number : 11099082

Lab Number : 06220885

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0906119

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Test Package : MOB 1 (Additional Tests: TBN)

Received **Tested**

: 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

* - 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: