WEAR CONTAMINATION FLUID CONDITION

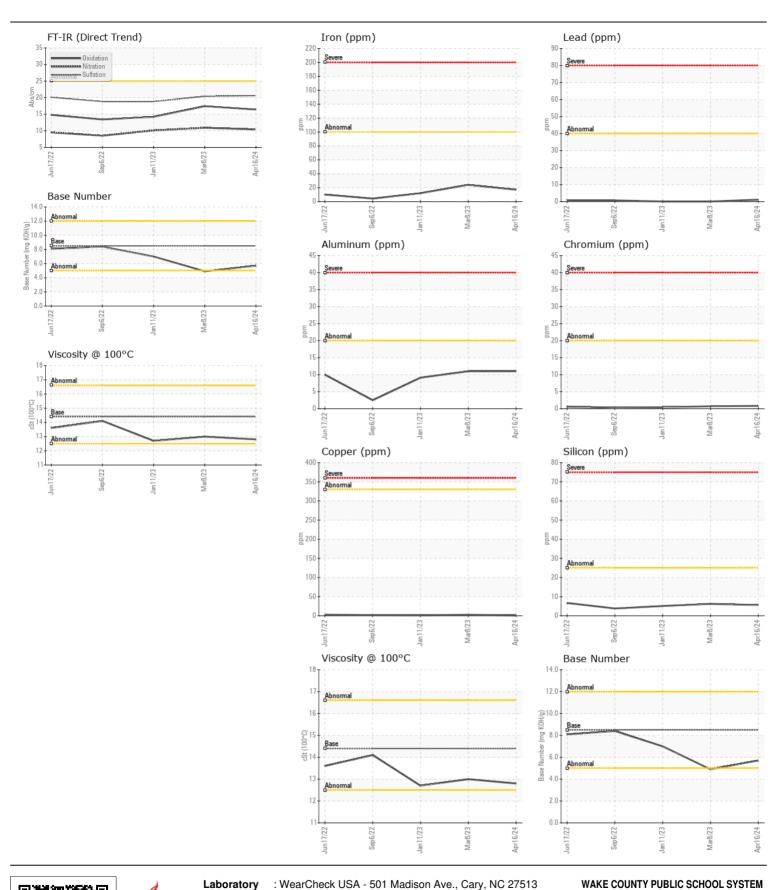
NORMAL NORMAL NORMAL

Machine Id

1759

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		WC0932824	WC0792847	WC077286
Resample at the next service interval to monitor. Please specify the component make and model with your next sample.	Sample Date		Client Info		16 Apr 2024	08 Mar 2023	11 Jan 202
	Machine Age	mls	Client Info		70616	39487	34373
	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
VEAR	Iron	ppm	ASTM D5185m	>100	17	24	12
	Chromium	ppm	ASTM D5185m		<1	<1	<1
Metal levels are typical for a new component breaking in.	Nickel	ppm	ASTM D5185m		0	<1	0
	Titanium	ppm	ASTM D5185m		<1	0	0
	Silver	ppm	ASTM D5185m	>3	<1	0	0
	Aluminum	ppm	ASTM D5185m		11	11	9
	Lead	ppm	ASTM D5185m		1	0	0
	Copper	ppm	ASTM D5185m	>330	1	2	1
	Tin	ppm	ASTM D5185m	>15	<1	0	<1
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6	6	5
	Potassium	ppm	ASTM D5185m		13	25	15
Elevated aluminum (AI) 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	1-1-	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	0.7	0.6	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	10.4	10.9	10.1
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.6	20.4	18.8
	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
LUID CONDITION	Sodium	ppm	ASTM D5185m	>158	2	0	2
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		26	26	42
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m	100	86	85	78
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		114	66	67
	Calcium	ppm	ASTM D5185m		2322	2153	2002
	Phosphorus	ppm	ASTM D5185m		1116	924	930
	Zinc	ppm	ASTM D5185m		1296	1118	1099
	Sulfur	ppm	ASTM D5185m		4434	3355	4009
	Oxidation Base Number (BN)	Abs/.1mm	*ASTM D7414		16.4 5.7	17.4 4.9	14.2 7.0





Certificate L2367

Laboratory

Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06195125

: WC0932824

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

Tested Unique Number : 11057248 Diagnosed Test Package : MOB 1 (Additional Tests: TBN)

Received : 30 May 2024 : 31 May 2024

: 31 May 2024 - Wes Davis

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.

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