WEAR
CONTAMINATION
FLUID CONDITION

NORMAL SEVERE ABNORMAL

Machine Id

INTERNATIONAL 554

Diesel Fngine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Number		Client Info		WC0905895	WC0878886	WC0792799
	Sample Date		Client Info		10 Jul 2024	26 Apr 2024	17 Apr 2023
	Machine Age	mls	Client Info		249509	245059	211042
	Oil Age	mls	Client Info		5000	5000	0
	Filter Age	mls	Client Info		5000	5000	0
	Oil Changed		Client Info		Changed	N/A	N/A
	Filter Changed		Client Info		Changed	N/A	N/A
	Sample Status				SEVERE	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	27	26	5
	Chromium	ppm	ASTM D5185m		<1	0	1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	0	<1
	Titanium	ppm	ASTM D5185m	7 7	0	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		7	13	4
	Lead	ppm	ASTM D5185m	>40	<1	1	<1
	Copper	ppm	ASTM D5185m	>330	3	0	<1
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	4	2	6
There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.	Potassium	ppm	ASTM D5185m		4	0	3
	Fuel	%	ASTM D3524	>2.0	4 9.6	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	1	0.5	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	9.9	8.5	4.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.0	19.3	16.9
	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
<u></u>	Emulsified Water	scalar	visuai	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		1	0	2
The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185m		5	0	21
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		52	64	58
longer serviceable due to the presence of contaminants.	Manganese	ppm	ASTM D5185m		<1	0	2
longer serviceable due to the presence of contaminants.	-		ASTM D5185m		785	1021	847
longer serviceable due to the presence of contaminants.	Magnesium	ppm					00-
longer serviceable due to the presence of contaminants.	Magnesium Calcium	ppm	ASTM D5185m		974	1199	985
longer serviceable due to the presence of contaminants.	Magnesium Calcium Phosphorus	ppm	ASTM D5185m ASTM D5185m		974 946	1199 1164	895
longer serviceable due to the presence of contaminants.	Magnesium Calcium	ppm	ASTM D5185m		974	1199	

Oxidation

Visc @ 100°C cSt

15.5

8.5

13.8

17.1

8.4

12.1

Abs/.1mm *ASTM D7414 >25

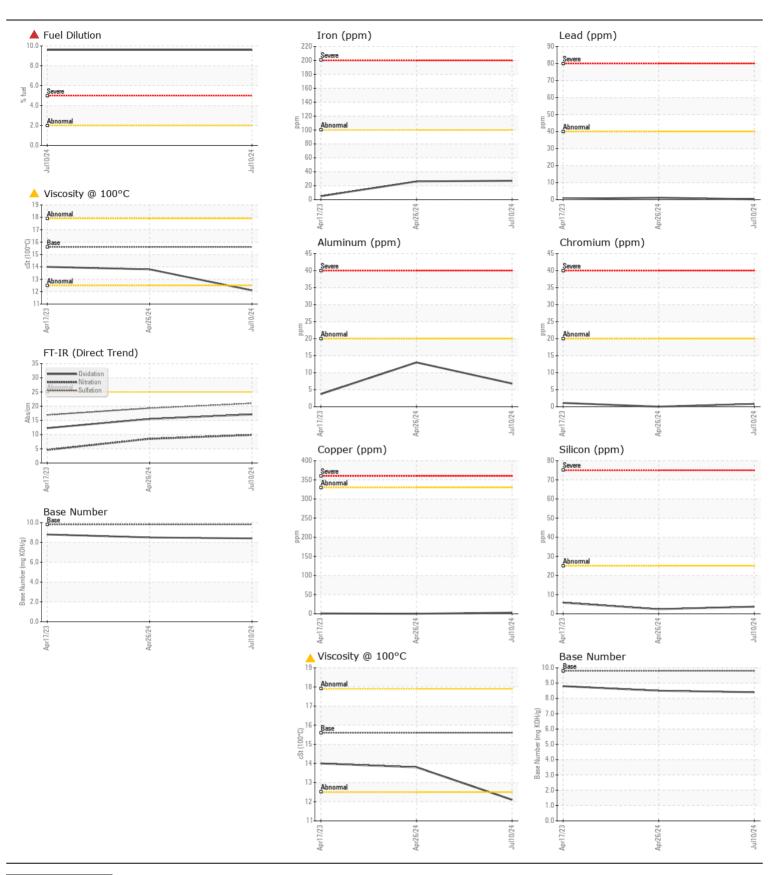
ASTM D445 15.6

Base Number (BN) mg KOH/g ASTM D2896 9.8

12.3

14.0

8.8





Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0905895 Lab Number : 06239675

Unique Number: 11128509

Received **Tested** Diagnosed

: 17 Jul 2024 : 19 Jul 2024

: 19 Jul 2024 - Wes Davis Test Package: MOB 1 (Additional Tests: FuelDilution, PercentFuel, TBN)

WAYNE CO SCHOOL BUS GARAGE 1603 SALEM CHURCH RD GOLDSBORO, NC

US 27530 Contact: BRANDON BRIGGS brandonbriggs@wcps.org

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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F: