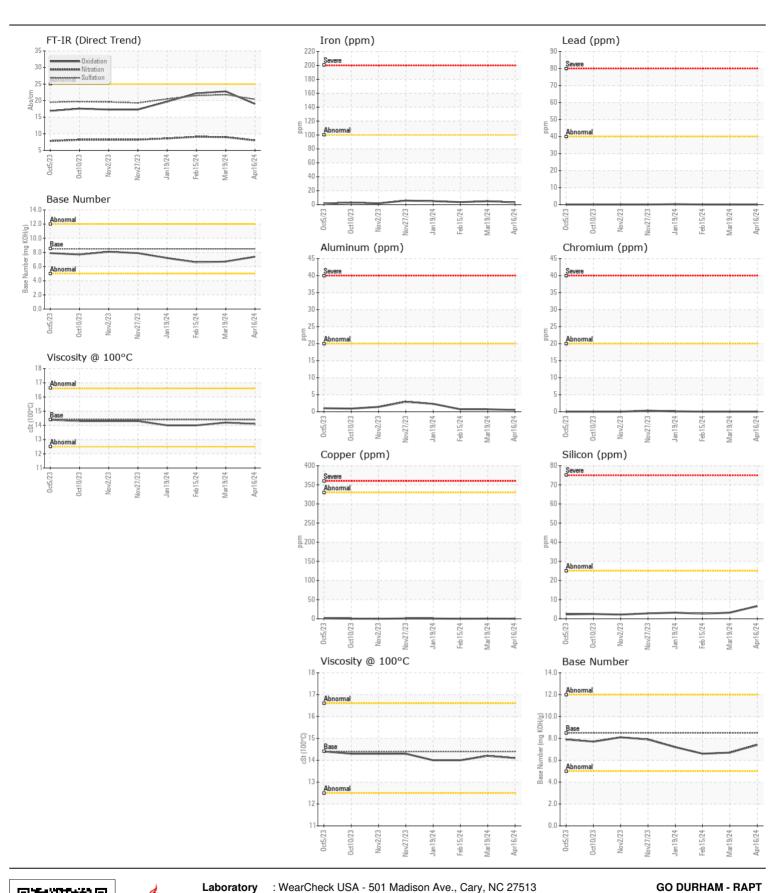
**WEAR** CONTAMINATION **FLUID CONDITION** 

**NORMAL NORMAL NORMAL** 

Machine Id

2105
Component
Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0897923	WC0894008	WC087877
	Sample Date		Client Info		16 Apr 2024	19 Mar 2024	15 Feb 202
	Machine Age	mls	Client Info		0	0	0
	Oil Age	mls	Client Info		0	0	0
	Filter Age	mls	Client Info		0	0	0
	Oil Changed		Client Info		Changed	N/A	N/A
	Filter Changed		Client Info		Changed	N/A	N/A
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	nnm	ASTM D5185m	>100	3	5	4
WEAR	Chromium	ppm	ASTM D5185m		0	0	0
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m	>4	0	0	0
	Silver		ASTM D5185m	. 2	0	0	0
	Aluminum	ppm	ASTM D5185m		<1	<1	<1
	Lead	ppm	ASTM D5185m		0	0	0
	Copper	ppm	ASTM D5185m		<1	<1	0
	Tin	ppm	ASTM D5185m		0	0	0
	Vanadium	ppm	ASTM D5185m	710	<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m		7	3	3
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		0	<1	0
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol	0.4	WC Method	0	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.2	0.2	0.2
	Nitration	Abs/cm	*ASTM D7624		8.0	9.0	9.1
	Sulfation	Abs/.1mm	*ASTM D7415		20.4	21.8	21.5
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE NORML	NONE	NONE
	Appearance Odor	scalar scalar	*Visual *Visual	NORML NORML	NORML	NORML NORML	NORM NORM
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
<u></u>	Linuisineu Water	Scalai	visuai	70.2			INLO
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>158	2	2	2
The DN was altituded at a the title are in a vitable all alliable was acidinal in the	Boron	ppm	ASTM D5185m	250	<1	0	0
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	0
	Molybdenum	ppm	ASTM D5185m	100	53	60	58
	Manganese	ppm	ASTM D5185m		0	0	0
	Magnesium	ppm	ASTM D5185m	450	874	985	955
	Calcium	ppm	ASTM D5185m	3000	1032	1096	1010
	Phosphorus	ppm	ASTM D5185m	1150	942	1067	1022
	Zinc	ppm	ASTM D5185m	1350	1127	1298	1241
	Sulfur	ppm	ASTM D5185m		3292	3674	2849
	Oxidation	Abs/.1mm	*ASTM D7414		19.0	22.8	22.2
	Base Number (BN)	mg KOH/g	ASTM D2896	8.5	7.4	6.7	6.6
	Visc @ 100°C	cSt	ASTM D445	444	14.1	14.2	14.0







Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0897923 Lab Number : 06151543

Unique Number: 10981621

Received **Tested** Diagnosed

: 19 Apr 2024 Test Package : MOB 1 ( Additional Tests: TBN )

: 19 Apr 2024 - Wes Davis

: 17 Apr 2024

1903 FAYETTEVILLE ST DURHAM, NC US 27701 Contact: Robert Iosiniecki

Robert.losiniecki@ratpdev.com

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

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

T: F: