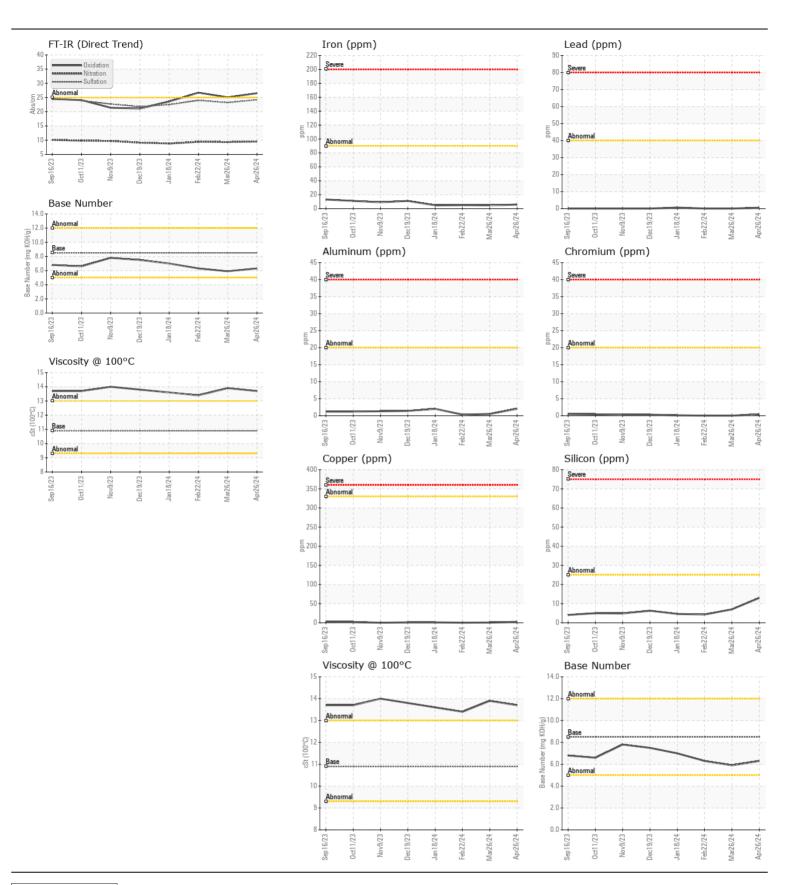
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL NORMAL NORMAL

Machine Id

1902 Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0897920	WC0893951	WC0894018
	Sample Date		Client Info		26 Apr 2024	26 Mar 2024	22 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
VEAR	Iron	nnm	ASTM D5185m	~ 00	6	5	5
WEAR	Chromium	ppm	ASTM D5185m		<1	0	0
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		√ <1	0	0
	Silver		ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		2	<1	<1
	Lead	ppm	ASTM D5185m		<1	0	0
	Copper	ppm	ASTM D5185m		2	<1	<1
	Tin	ppm	ASTM D5185m		<1	0	<1
	Vanadium	ppm	ASTM D5185m	710	<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
ONTAMINATION						_	
CONTAMINATION	Silicon	ppm	ASTM D5185m		13	7	4
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		3	<1	<1
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol Soot %	0/	WC Method	0	NEG	NEG	NEG
	Nitration	% Abs/cm	*ASTM D7844 *ASTM D7624	>0	0.3 9.5	0.3 9.3	0.3 9.4
	Sulfation	Abs/.1mm	*ASTM D7624		24.2	23.2	24.0
	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	NORMI
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.2	NEG	NEG	NEG
LUID CONDITION	Sodium	ppm	ASTM D5185m		0	2	3
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		0	<1	0
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m	-	2	<1	0
	Molybdenum	ppm	ASTM D5185m	100	59	56	56
	Manganese	ppm	ASTM D5185m		<1	0	0
	Magnesium	ppm	ASTM D5185m		862	936	999
	Calcium	ppm	ASTM D5185m		1086	1127	1067
	Phosphorus	ppm	ASTM D5185m		1012	1032	1039
	Zinc	ppm	ASTM D5185m		1141	1299	1236
	Sulfur	ppm	ASTM D5185m		3058	3710	3129
	Oxidation	Abs/.1mm	*ASTM D7414		26.5 6.3	25.1 5.9	26.7
	Base Number (BN)	ma K()H/a	ASTM 112896	X h	63	5 9	6.3





Certificate L2367

Laboratory Sample No.

Lab Number : 06176798

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0897920

Unique Number : 11022851

Received : 13 May 2024 **Tested** Diagnosed

: 14 May 2024 : 14 May 2024 - Wes Davis

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

Test Package : MOB 1 (Additional Tests: TBN) To discuss this sample report, contact Customer Service at 1-800-237-1369.

Robert.losiniecki@ratpdev.com T:

* - 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)

F: