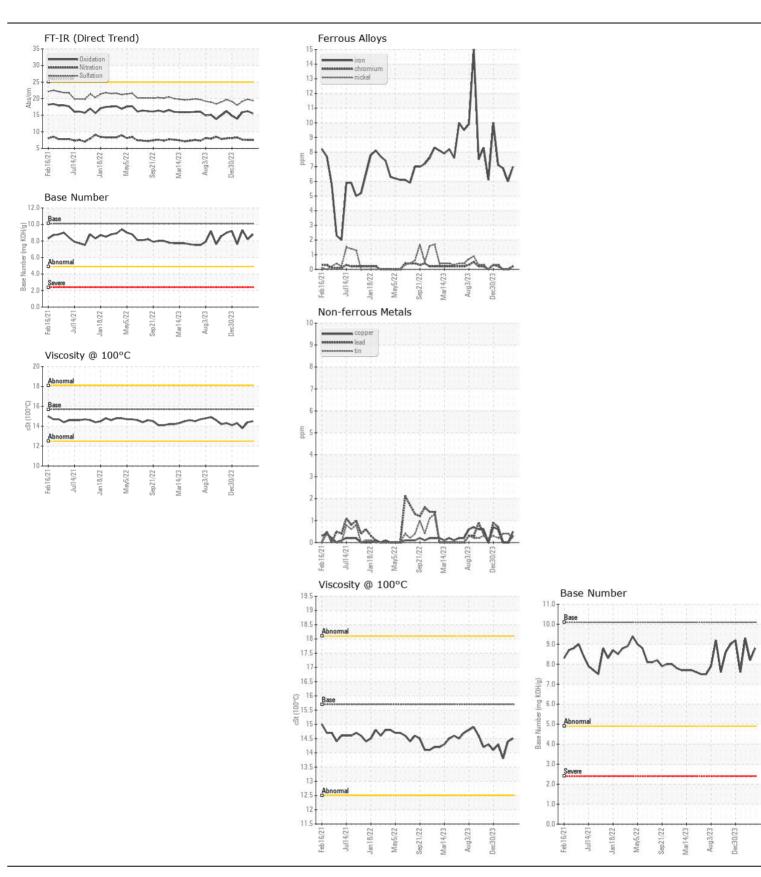
**WEAR** CONTAMINATION **FLUID CONDITION**  **NORMAL NORMAL NORMAL** 



## Machine Id **JOHN DEERE 624K 1DW624KZEEE657948**

Diesel Engine

SHELL ROTELLA T 15W40 (5 C	GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0201413		JR0201393
Resample at the next service interval to monitor.	Sample Date		Client Info		22 Apr 2024	31 Mar 2024	10 Mar 2024
	Machine Age	hrs	Client Info		14115	13911	13702
	Oil Age	hrs	Client Info		204	209	197
	Filter Age	hrs	Client Info		204	209	197
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL		NORMAL
WEAR	Iron	nnm	ASTM D5185m	<u>-51</u>	7	6	7
WLAN	Chromium	ppm	ASTM D5185m		/ <1	0	0
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	0	0
	Titanium	ppm	ASTM D5185m	/5	<1	0	0
	Silver	ppm	ASTM D5185m	~3	0	0	0
	Aluminum	ppm	ASTM D5185m		2	1	2
	Lead	ppm	ASTM D5185m		<1	0	0
	Copper	ppm	ASTM D5185m		<1	0	0
	Tin	ppm	ASTM D5185m	>4	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTANUNATION							
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	6	4	6
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		8	5	<1
	Fuel		WC Method		<1.0	<1.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol	0/	WC Method	0	NEG	NEG	NEG
	Soot %	% Ala a /ava	*ASTM D7844		0.3	0.3	0.3
	Nitration Sulfation	Abs/cm Abs/.1mm	*ASTM D7624 *ASTM D7415	>20	7.5 19.4	7.5 19.8	7.6 19.2
	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	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water		*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	3	5
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		151	125	38
	Barium	ppm	ASTM D5185m		<1	0	0
	Molybdenum	ppm	ASTM D5185m	1.2	12	13	48
	Manganese	ppm	ASTM D5185m	0.4	0	<1	<1
	Magnesium	ppm	ASTM D5185m		131	161	535
	Calcium	ppm	ASTM D5185m		2115	2026	1576
	Phosphorus	ppm	ASTM D5185m		1114	1050	1097
	Zinc	ppm	ASTM D5185m		1223	1207	1267
	Sulfur	ppm Abo/ 1mm	ASTM D5185m		3830	3821	3519
	Oxidation	Abs/.1mm	*ASTM D7414 ASTM D2896		15.5 8.8	16.2 8.2	15.9 9.3
	Base Number (BN) Visc @ 100°C	cSt	ASTM D2896 ASTM D445		14.5	14.4	13.8
	VISC @ 100 C	COL	A3 1 W D443	15.7	14.5	14.4	13.0







Certificate L2367

Laboratory Sample No.

: JR0201413 Lab Number : 06196356 Unique Number : 11058479

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** 

Diagnosed Test Package : CONST ( Additional Tests: TBN )

: 03 Jun 2024 : 03 Jun 2024 - Wes Davis

: 31 May 2024

Baxter Healthcare - Wood Boiler Biomass 2859 OLD LINVILLE RD MARION, NC

US 28752 Contact: RICKY STYLES ricky\_styles@baxter.com T: (828)756-4946

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)

F: