

Limit/Abn **Current** 

History1

History2

TO

## JOHN DEERE 624K 1DW624KZEB0635411

Test

UOM

Method

Diesel Engine

SHELL ROTELLA T 15W40 (5 GAL)

RECOMMENDATION

We advise that you check for the source of the coolant leak. Check for low coolant level. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

## **WEAR**

All component wear rates are normal.

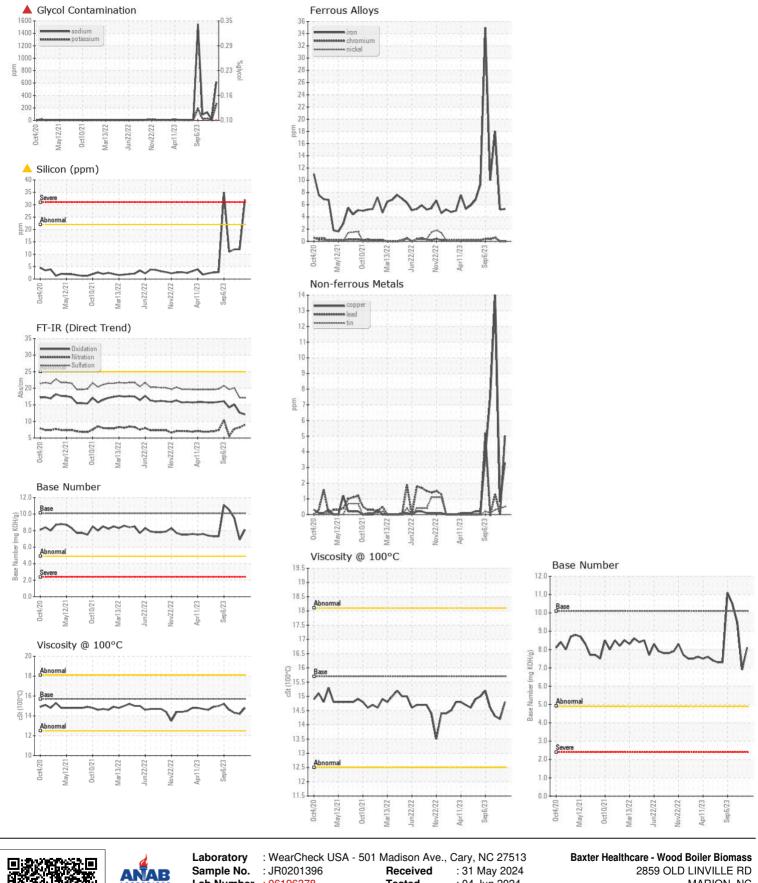
## CONTAMINATION

Sodium and/or potassium levels are high. Test for glycol is positive. Elemental level of silicon (Si) above normal indicating ingress of seal material.

	Test	UOIVI	Ivietnoa	Limit/Add		urrent	HIStory I	HIStory2
	Sample Number		Client Info		JF	R0201396	JR0201391	JR0160642
	Sample Date		Client Info		09	Feb 2024	09 Jan 2024	29 Nov 2023
	Machine Age	hrs	Client Info		28	3765	28536	28329
	Oil Age	hrs	Client Info		22	28	207	217
	Filter Age	hrs	Client Info		22	28	207	217
	Oil Changed		Client Info		C	hanged	Changed	Changed
	Filter Changed		Client Info		C	hanged	Changed	Changed
	Sample Status				SI	EVERE	NORMAL	ATTENTION
	Iron	ppm	ASTM D5185m	>51		5	5	18
	Chromium	ppm	ASTM D5185m	>11		0	0	<1
	Nickel	ppm	ASTM D5185m	>5		0	0	<1
	Titanium	ppm	ASTM D5185m			0	0	<1
	Silver	ppm	ASTM D5185m	>3		0	0	0
	Aluminum	ppm	ASTM D5185m	>31		2	2	6
	Lead	ppm	ASTM D5185m	>26		5	0	1
	Copper	ppm	ASTM D5185m	>26		3	<1	14
	Tin	ppm	ASTM D5185m	>4		<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
	0'''						4.0	40
	Silicon	ppm	ASTM D5185m	>22		32	12	12
	Potassium	ppm	ASTM D5185m	>20		260	4	30
	Fuel		WC Method	>2.1		<1.0	<1.0	<1.0
	Water	01	WC Method	>0.21		NEG	NEG	NEG
	Glycol	%	*ASTM D2982	0		0.10	NEG	NEG
	Soot %	%	*ASTM D7844	>3		0.2	0.2	0.3
	Nitration	Abs/cm	*ASTM D7624	>20		9.0	8.2	7.8
	Sulfation	Abs/.1mm	*ASTM D7415	>30		17.1	17.1	20.1
	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	scalar	*Visual	>0.21		NEG	NEG	NEG
	Sodium	ppm	ASTM D5185m	>31		617	19	130
	Boron	ppm	ASTM D5185m	316		110	81	313
	Barium	ppm	ASTM D5185m	0.0		<1	<1	2
	Molybdenum	ppm	ASTM D5185m			84	94	274
	Manganese	ppm	ASTM D5185m			<1	<1	<1
	Magnesium	ppm	ASTM D5185m	24		50	87	824
	Calcium	ppm	ASTM D5185m	2292		1783	2084	1512
	Phosphorus	ppm	ASTM D5185m	1064		1009	1002	1077
	Zinc	ppm	ASTM D5185m	1160		1077	1172	1186
	Sulfur	ppm	ASTM D5185m	4996		3910	4124	3555
	Oxidation	Abs/.1mm	*ASTM D7414	>25		12.1	12.6	15.1
	Base Number (BN)		ASTM D2896	10.1		8.1	6.9	9.5
	Visc @ 100°C	cSt	ASTM D445	15.7		14.8	14.2	14.3
			. 10 1111 0 1 10	10.7			· · · <u>·</u>	

## FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.



Sample No. : JR0201396 Received 2859 OLD LINVILLE RD : 31 May 2024 Lab Number : 06196378 Tested : 04 Jun 2024 MARION, NC Unique Number : 11058501 : 04 Jun 2024 - Jonathan Hester US 28752 Diagnosed Test Package : CONST (Additional Tests: Glycol, TBN) Contact: RICKY STYLES Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. ricky\_styles@baxter.com \* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (828)756-4946 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Contact/Location: RICKY STYLES - SUEMAR Page 2 of 2