WEAR CONTAMINATION FLUID CONDITION

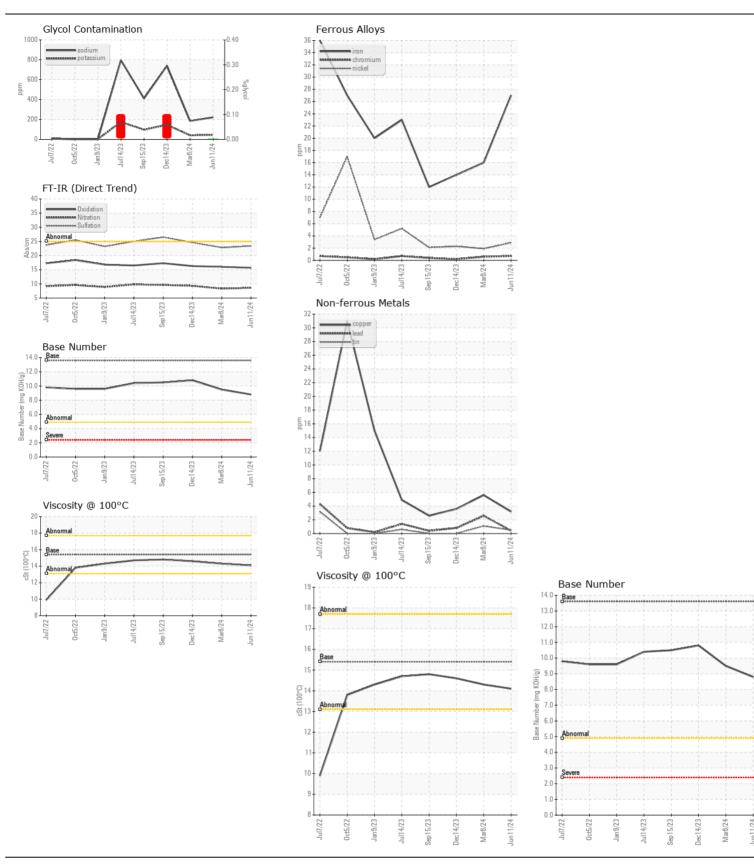
NORMAL ABNORMAL ABNORMAL

Machine Id

JOHN DEERE 824L 1DW824LXVNL714032

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
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.	Sample Number		Client Info		WE0007833	WE0007047	WE0006500
	Sample Date		Client Info		11 Jun 2024	08 Mar 2024	14 Dec 2023
	Machine Age	hrs	Client Info		4472	3957	3449
	Oil Age	hrs	Client Info		472	0	0
	Filter Age	hrs	Client Info		472	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	ABNORMAL	SEVERE
WEAR	Iron	ppm	ASTM D5185m	\51	27	16	14
WEAT	Chromium	ppm	ASTM D5185m		<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		3	2	2
	Titanium	ppm	ASTM D5185m	70	<1	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	<1	0
	Aluminum	ppm	ASTM D5185m		6	4	5
	Lead	ppm	ASTM D5185m		<1	3	<1
	Copper	ppm	ASTM D5185m		3	6	4
	Tin	ppm	ASTM D5185m		<1	1	0
	Vanadium	ppm	ASTM D5185m		0	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	nnm	ASTM D5185m	. 20	20	15	△ 32
	Potassium	ppm	ASTM D5185m		∠0 ▲ 45	40	△ 146
Sodium and/or potassium levels remain high.	Fuel	ppm	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		< 1.0 NEG	NEG	NEG
	Glycol	%	*ASTM D2982	<i>></i> 0.∠1	0.0	NEG	▲ 0.10
	Soot %	%	*ASTM D7844	~3	0.6	0.4	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	8.6	8.3	9.3
	Sulfation	Abs/.1mm	*ASTM D7415		23.4	22.8	24.6
	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
ELUB CONDITION							
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	<u>^</u> 222	▲ 184	1 740
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		193	178	212
oil.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		273	237	292
	Manganese	ppm	ASTM D5185m		<1	1	<1
	Magnesium Calcium	ppm	ASTM D5185m		837	862	854
		ppm	ASTM D5185m ASTM D5185m		1389	1498 910	1393 974
	Phosphorus Zinc	ppm	ASTM D5185m		828 1099	1144	1115
		ppm					
	Sulfur Oxidation	ppm Abs/.1mm	ASTM D5185m *ASTM D7414	> 2F	3323 15.7	3894	3634
	Base Number (BN)	mg KOH/g	ASTM D7414 ASTM D2896		8.8	16.0 9.5	16.3
		1110 NOT/()	40 LIVI DZ090	10.0	0.0	3.5	10.0
	Visc @ 100°C	cSt	ASTM D445		14.1	14.3	14.6







Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WE0007833 Lab Number : 06209880

Unique Number : 11082744

Received **Tested** Diagnosed

: 14 Jun 2024 : 19 Jun 2024

: 19 Jun 2024 - Jonathan Hester

WARRIOR TRACTOR AND EQUIPMENT - NORTHPORT P.O. BOX 412

NORTHPORT, AL US 35476 Contact: SCOTT GOOD

sgood@warriortractor.com T: (205)339-0300

Certificate L2367

Test Package : CONST (Additional Tests: Glycol, TBN) 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)

Report Id: WARNOR [WUSCAR] 06209880 (Generated: 06/22/2024 23:01:47) Rev: 1

Contact/Location: SCOTT GOOD - WARNOR

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