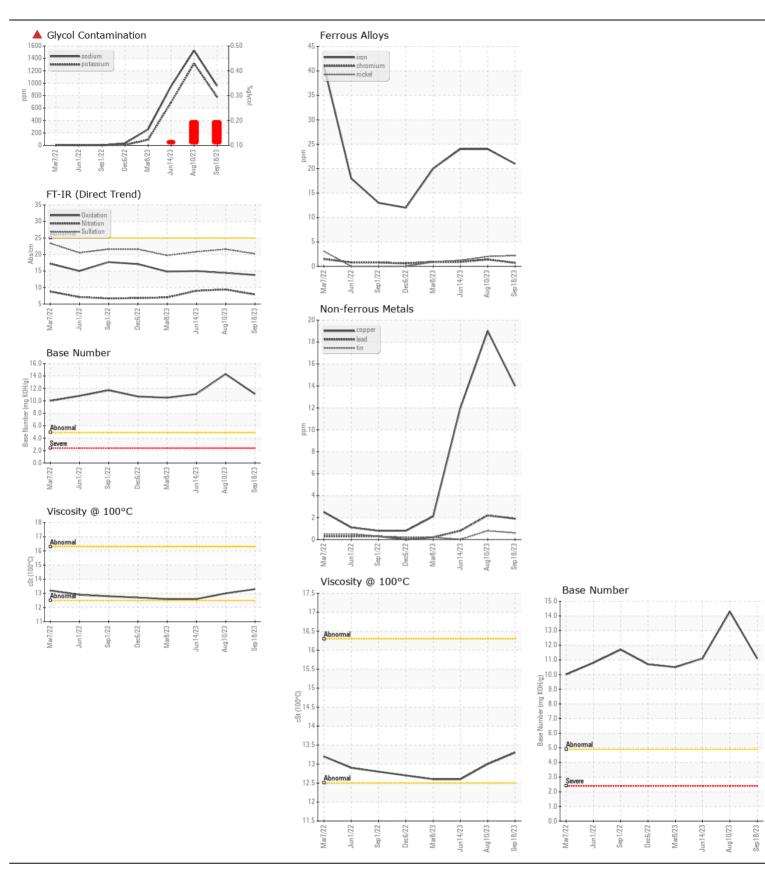
WEAR CONTAMINATION **FLUID CONDITION**

NORMAL SEVERE ABNORMAL

Machine Id

JOHN DEERE 409

Diesel Engine							
Fluid							
MOBIL 15W40 (QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check for the source of the coolant leak. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.	Sample Number		Client Info		JR0135315	JR0135309	JR0135390
	Sample Date		Client Info		18 Sep 2023	10 Aug 2023	14 Jun 2023
	Machine Age	hrs	Client Info		5500	5337	5074
	Oil Age	hrs	Client Info		500	337	574
	Filter Age	hrs	Client Info		500	337	574
	Oil Changed		Client Info		Changed	Not Changd	Changed
	Filter Changed		Client Info		Changed	Not Changd	Changed
	Sample Status				SEVERE	SEVERE	SEVERE
WEAD			AOTM DE405		0 4	0.4	0.4
WEAR	Iron	ppm	ASTM D5185m		21	24	24
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	1	<1
	Nickel	ppm	ASTM D5185m	>5	2	2	1
	Titanium	ppm	ASTM D5185m	. 0	0	0	<1
	Silver	ppm	ASTM D5185m		0	<1 4	0
	Aluminum	ppm	ASTM D5185m		4		
	Lead	ppm	ASTM D5185m ASTM D5185m		2	2	<1 12
	Copper Tin	ppm		>4	14	19 <1	0
	Vanadium	ppm	ASTM D5185m	>4	<1 0	0	<1
	White Metal	ppm scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
			Visuai	NONL		INOINL	NONL
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	15	20	17
Test for glycol is positive. There is a high concentration of glycol present in the oil.	Potassium	ppm	ASTM D5185m	>20	A 776	<u> </u>	△ 690
	Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol	%	*ASTM D2982		4 0.20	▲ 0.20	▲ 0.12
	Soot %	%	*ASTM D7844	>3	0.1	0.2	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	7.9	9.4	9.0
	Sulfation	Abs/.1mm	*ASTM D7415	>30	20.2	21.6	20.8
	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
FLUID CONDITION	Sodium	ppm	ASTM D5185m	<118	956	<u> </u>	950
I LOID CONDITION	Boron	ppm	ASTM D5185m	>110	148	16	13
Molybdenum ppm levels are abnormally high. Sodium ppm levels are	Barium	ppm	ASTM D5185m		0	<1	0
notably high. 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.	Molybdenum	ppm	ASTM D5185m		<u>^</u> 227	161	99
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		808	791	852
	Calcium	ppm	ASTM D5185m		1325	1270	1204
	Phosphorus	ppm	ASTM D5185m		1002	1011	970
	Zinc	ppm	ASTM D5185m		1181	1193	1177
	Sulfur	ppm	ASTM D5185m		4069	3510	3785
	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.8	14.4	15.0
	Base Number (BN)				11.1	14.3	11.1
	Visc @ 100°C	cSt	ASTM D445		13.3	13.0	12.6
	_						







Laboratory Sample No.

Lab Number : 05986251

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0135315

Received **Tested** Unique Number : 10708913 Diagnosed

: 24 Oct 2023 : 24 Oct 2023 - Wes Davis

: 23 Oct 2023

THE SCOTTS COMPANY 3175 BRIGHT LEAF RD LAWRENCEVILLE, VA US 23868

Contact: REX WATSON

T: (434)848-2727

Test Package : CONST (Additional Tests: TBN) Certificate L2367 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: (434)848-2250