WEAR CONTAMINATION FLUID CONDITION

NORMAL SEVERE ABNORMAL

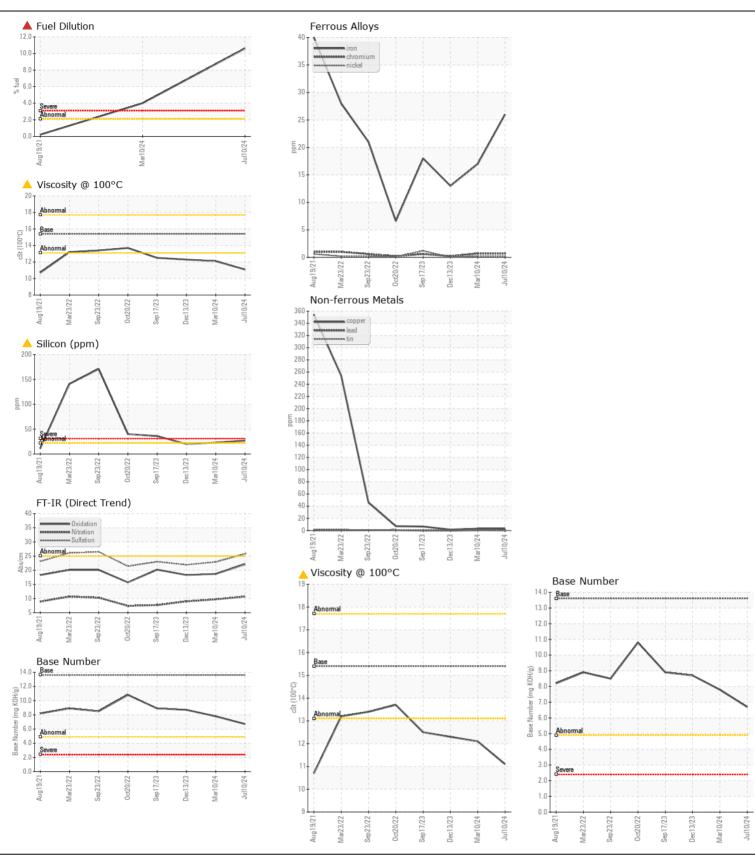
Machine Id

JOHN DEERE 300G 1FF300GXLMF731759

Component

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number	2 3	Client Info		JR0223613	JR0204745	,
We advise that you check the fuel injection system. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.	Sample Date		Client Info		10 Jul 2024	10 Mar 2024	13 Dec 2023
	Machine Age	hrs	Client Info		3477	2972	2626
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		N/A	N/A	N/A
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				SEVERE	ABNORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	<u></u>	26	17	13
WEAT	Chromium	ppm	ASTM D5185m		<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	<1	0
	Titanium	ppm	ASTM D5185m	75	0	<1	0
	Silver	ppm	ASTM D5185m	>3	0	<1	0
	Aluminum	ppm	ASTM D5185m		3	4	2
	Lead	ppm	ASTM D5185m		<1	<1	0
	Copper	ppm	ASTM D5185m		3	3	2
	Tin	ppm	ASTM D5185m		0	<1	<1
	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	ppm	ASTM D5185m	-22	<u>^</u> 27	<u>^</u> 23	20
CONTAMINATION	Potassium	ppm	ASTM D5185m		1	3	0
There is a high amount of fuel present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material.	Fuel	%	ASTM D3524	>2.1	10.6	<u>4.0</u>	<1.0
	Water	,,,	WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.5	0.3	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	10.7	9.7	9.0
	Sulfation	Abs/.1mm	*ASTM D7415	>30	25.8	22.9	21.9
	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	>31	6	2	1
	Boron	ppm	ASTM D5185m		34	148	134
Fuel is present in the oil and is lowering the viscosity. 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.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		227	252	173
THE TOTAGE OUT PROCESSION WAS A THE DISSULTED OF CONTRACT AND A THE	Manganese	ppm	ASTM D5185m		<1	<1	<1
5	Magnesium	ppm	ASTM D5185m		742	766	713
• · · · · · · · · · · · · · · · · · · ·	0		ASTM D5185m		1380	1371	1432
ς	Calcium	ppm					
G	•	ppm	ASTM D5185m		792	853	874
ς · · · · · · · · · · · · · · · · · · ·	Calcium Phosphorus Zinc		ASTM D5185m		932	992	1081
G	Calcium Phosphorus Zinc Sulfur	ppm	ASTM D5185m ASTM D5185m		932 2705	992 2702	1081 2817
Ç 3 3344 345 34 4 P 325432 34 254444444	Calcium Phosphorus Zinc Sulfur Oxidation	ppm ppm ppm Abs/.1mm	ASTM D5185m ASTM D5185m *ASTM D7414		932 2705 22.1	992 2702 18.7	1081 2817 18.3
ς · · · · · · · · · · · · · · · · · · ·	Calcium Phosphorus Zinc Sulfur	ppm ppm ppm Abs/.1mm	ASTM D5185m ASTM D5185m *ASTM D7414	13.6	932 2705	992 2702	1081 2817





Certificate L2367

Laboratory Sample No.

: JR0223613 Lab Number : 06233102 Unique Number: 11116595

To discuss this sample report, contact Customer Service at 1-800-237-1369.

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

Diagnosed

: 11 Jul 2024 : 16 Jul 2024

: 16 Jul 2024 - Jonathan Hester Test Package : CONST (Additional Tests: PercentFuel, TBN)

US 27409 Contact: NICK GALLAHER NGALLAHER@JRENET.COM T: (336)668-2762

411 SOUTH REGIONAL ROAD

JRE - GREENSBORO

GREENSBORO, NC

F: (336)665-9556

* - 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)