

WEAR CONTAMINATION FLUID CONDITION

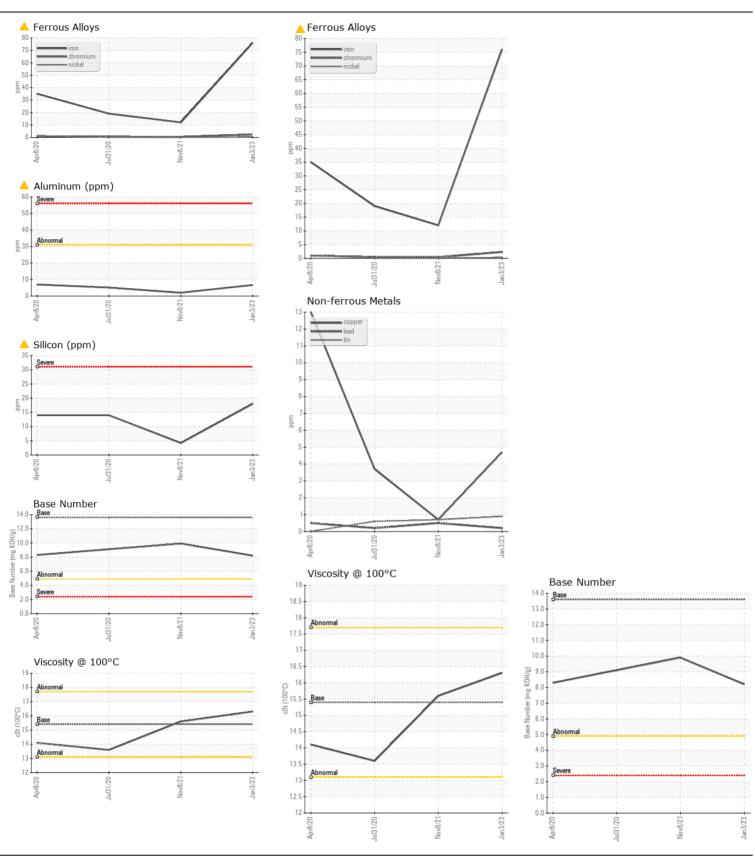
ABNORMAL MARGINAL NORMAL

Store 9 - Marietta [135211]

JOHN DEERE 304L 1LU304LXLZB048374

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
TEOCIVILIDATION .	Sample Number	JOIVI	Client Info	LIIII(/N)(I	LEC0037272	LEC0023547	LEC0013808
We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		03 Jan 2023	08 Nov 2021	31 Jul 2020
	Machine Age	hrs	Client Info		5040	4184	2453
	Oil Age	hrs	Client Info		856	1731	4893
	Filter Age	hrs	Client Info		856	0	483
	Oil Changed	0	Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	NORMAL	NORMAL
A/F A D			AOTA D5405			40	40
WEAR	Iron	ppm	ASTM D5185m		<u>^</u> 76	12	19
The iron level is abnormal. All other component wear rates are normal.	Chromium	ppm	ASTM D5185m		2	<1	<1
	Nickel	ppm	ASTM D5185m	>5	<1	0	<1
	Titanium	ppm	ASTM D5185m	0	<1	0	<1
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		▲ 7	2	5
	Lead	ppm	ASTM D5185m		<1	<1	<1
	Copper Tin	ppm	ASTM D5185m ASTM D5185m		5	<1	<1 <1
		ppm		>4	<1 <1	<1	
	Vanadium White Metal	ppm	*Visual	NONE	< I NONE	<1 NONE	<1 NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	reliow Metal	scalar	Visuai	NONE	NONE	NONE	INOINE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>!20	1 8	4	14
Flores and allowed a set allowed a least a set and a least a set a set and a least a set a set and a least a set a set a set and a least a set a set a set a set and a least a set a	Potassium	ppm	ASTM D5185m	>20	3	0	2
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.	Fuel		WC Method	>5	<1.0	<1.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	1.9	0.5	0.6
	Nitration	Abs/cm	*ASTM D7624	>20	16.2	9.3	10.1
	Sulfation	Abs/.1mm	*ASTM D7415	>30	33.7	23.3	24.7
	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	<1	<1	3
The BN result indicates that there is suitable alkalinity remaining in the oil.	Boron	ppm	ASTM D5185m		97	252	256
	Barium	ppm	ASTM D5185m		0	0	<1
	Molybdenum	ppm	ASTM D5185m		297	252	268
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		844	803	822
	Calcium	ppm	ASTM D5185m		1673	1413	1357
	Phosphorus	ppm	ASTM D5185m		962	879	837
	Zinc	ppm	ASTM D5185m		1195	981	1037
	Sulfur	ppm	ASTM D5185m		3525	2643	2333
	Oxidation	Abs/.1mm	*ASTM D7414		33.6	18.7	19.9
	Base Number (BN)	mg KOH/g	ASTM D2896		8.2	9.9	9.1
	Visc @ 100°C	cSt	ASTM D445		16.3	15.6	13.6







Certificate L2367

Laboratory Sample No. **Lab Number** Unique Number

: LEC0037272 : 05730858 : 10280456

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 05 Jan 2023

Diagnosed : 06 Jan 2023 Diagnostician : Jonathan Hester

Test Package : CONST (Additional Tests: TBN) To discuss this sample report, contact Customer Service at 1-800-237-1369.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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