WEAR
CONTAMINATION
FLUID CONDITION

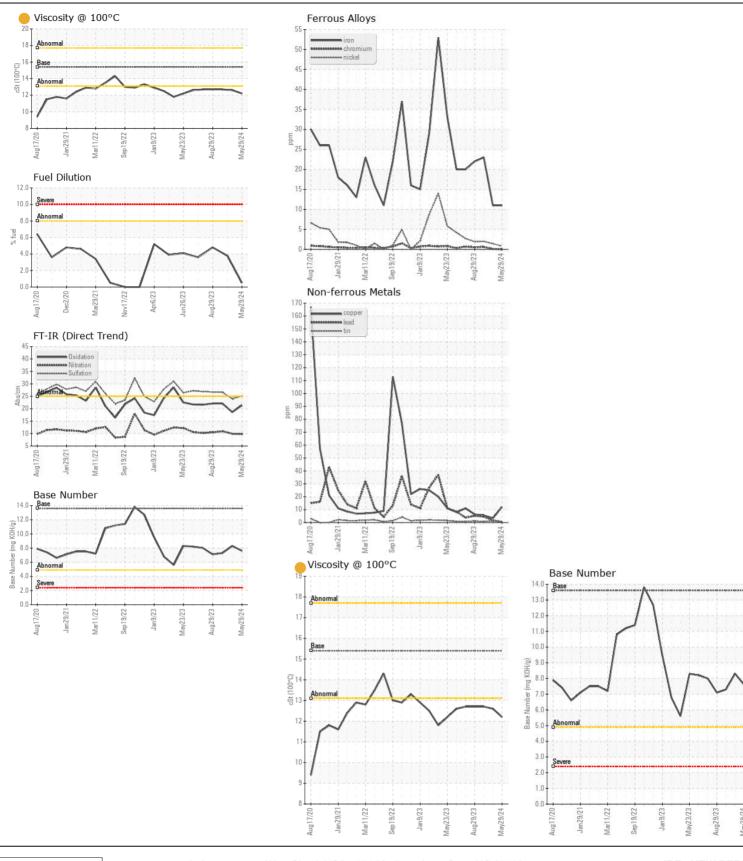
NORMAL NORMAL ATTENTION

Machine Id

## JOHN DEERE 1050K 1T01050KHLF373986

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		JR0214175	JR0193531	JR018948
	Sample Date		Client Info		29 May 2024	18 Dec 2023	04 Oct 202
	Machine Age	hrs	Client Info		12950	12480	12146
	Oil Age	hrs	Client Info		470	334	497
	Filter Age	hrs	Client Info		0	334	497
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		N/A	N/A	Changed
	Sample Status				ATTENTION	NORMAL	SEVERE
WEAR	Iron	nnm	ASTM D5185m	<u>-51</u>	11	11	23
WEAR	Chromium	ppm	ASTM D5185m		0	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	1	2
	Titanium	ppm	ASTM D5185m	>0	0	0	0
	Silver		ASTM D5185m	~3	0	0	0
	Aluminum	ppm	ASTM D5185m		5	4	4
	Lead	ppm	ASTM D5185m		ە <1	2	4
	Copper	ppm	ASTM D5185m		12	3	6
	Tin	ppm	ASTM D5185m		1	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		6	7	8
Fuel content negligible. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		4	4	4
	Fuel	%	ASTM D3524		0.5	<1.0	▲ 3.8
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol	21	WC Method	0	NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.3	0.4	0.6
	Nitration	Abs/cm	*ASTM D7624	>20	9.8	9.9	10.9
	Sulfation	Abs/.1mm	*ASTM D7415		25.1	24.0	26.6
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris Cond/Dist	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE NORML	NONE NORML	NONE
	Appearance Odor	scalar scalar	*Visual *Visual	NORML NORML	NORML	NORML	NORM
	Emulsified Water		*Visual	>0.21	NEG	NEG	NEG
<u></u>		Scalai	Visuai	>0.21			INLG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	13	9	10
The city is acceptable and the property of the DNI was all indicates that	Boron	ppm	ASTM D5185m		142	131	51
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		<1	0	0
	Molybdenum	ppm	ASTM D5185m		224	238	254
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		750	756	783
	Calcium	ppm	ASTM D5185m		1426	1404	1521
	Phosphorus	ppm	ASTM D5185m		904	875	951
	Zinc	ppm	ASTM D5185m		1042	1056	1139
	Sulfur	ppm	ASTM D5185m		3358	2782	3027
	Oxidation	Abs/.1mm	*ASTM D7414		21.4	18.6	22.1
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.6	8.3	7.3
	Visc @ 100°C	cSt	ASTM D445		12.2	12.6	<u> </u>







Laboratory Sample No. Unique Number : 11057408

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06195285

: JR0214175

Received **Tested** 

: 30 May 2024 : 05 Jun 2024 Diagnosed

: 05 Jun 2024 - Jonathan Hester

JRE - NEW BERN 3816 MARTIN LUTHER KING BLVD

NEW BERN, NC US 28562

Test Package: CONST (Additional Tests: FuelDilution, PercentFuel, TBN) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

Contact: NEW BERN SHOP nick.etherdridge@jamesriverequipment.com;canastasio@wearcheckusa.com T:

\* - 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)

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