**WEAR** CONTAMINATION **FLUID CONDITION** 

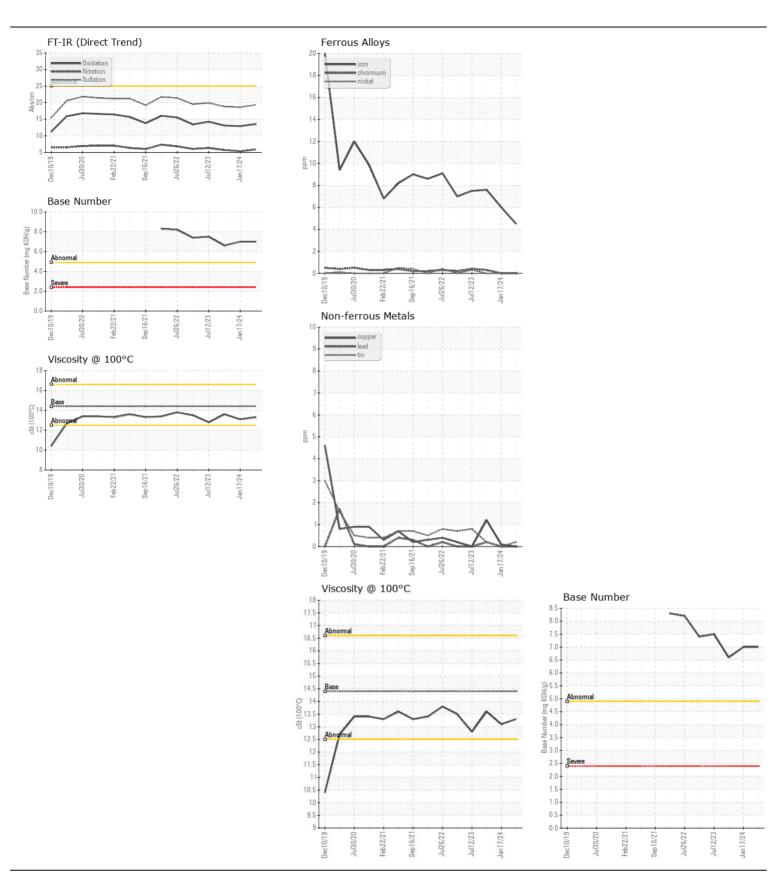
**NORMAL NORMAL NORMAL** 

Machine Id

## **JOHN DEERE 30212**

Component Diesel Engine

CHEVRON 15W40 ( QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		WC0924425	WC0882606	WC0856750
	Sample Date		Client Info		21 May 2024	17 Jan 2024	17 Oct 2023
	Machine Age	hrs	Client Info		3801	3513	3349
	Oil Age	hrs	Client Info		250	250	1750
	Filter Age	hrs	Client Info		250	250	1750
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	4	6	8
	Chromium	ppm	ASTM D5185m	>11	0	0	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		1	<1	3
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		3	4	3
	Lead	ppm	ASTM D5185m		0	0	<1
	Copper	ppm	ASTM D5185m		0	<1	1
	Tin	ppm	ASTM D5185m		<1	0	<1
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	<b>-22</b>	8	9	9
	Potassium	ppm	ASTM D5185m		<1	0	3
There is no indication of any contamination in the oil.	Fuel	ррпп	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	70.21	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	~ 3	0.2	0.1	0.3
	Nitration	Abs/cm	*ASTM D7624		5.9	5.3	5.7
	Sulfation	Abs/.1mm	*ASTM D7024		19.3	18.6	18.8
	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		*Visual	>0.21	NEG	NEG	NEG
THUR CONDITION			AOTA DEADE				
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>50	<1	<1	<1
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		479	438	376
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		82	88	80
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m		396	399	384
	Calcium	ppm	ASTM D5185m		1381	1357	1394
	Phosphorus	ppm	ASTM D5185m		1000	1020	1007
	Zinc	ppm	ASTM D5185m		1209	1214	1248
	Sulfur	ppm Aba/dama	ASTM D5185m	05	3516	3236	3260
	Oxidation	Abs/.1mm	*ASTM D7414	>25	13.5	12.9	13.1
	Base Number (BN)			4.4.4	7.0	7.0	6.6
	Visc @ 100°C	cSt	ASTM D445	14.4	13.3	13.1	13.6







Laboratory Sample No.

Lab Number : 06191703 Unique Number : 11048455

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : WC0924425

Test Package : CONST (Additional Tests: TBN)

Received : 24 May 2024 **Tested** Diagnosed

: 29 May 2024

: 29 May 2024 - Angela Borella

Contact: SCOTT SULLIVAN ssullivan@sullivaneastern.com

T: (919)484-8993 F: (919)484-2136

2860 C SLATER RD

MORRISVILLE, NC

**SULLIVAN EASTERN INC** 

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) US 27560