**OIL ANALYSIS REPORT** 

WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

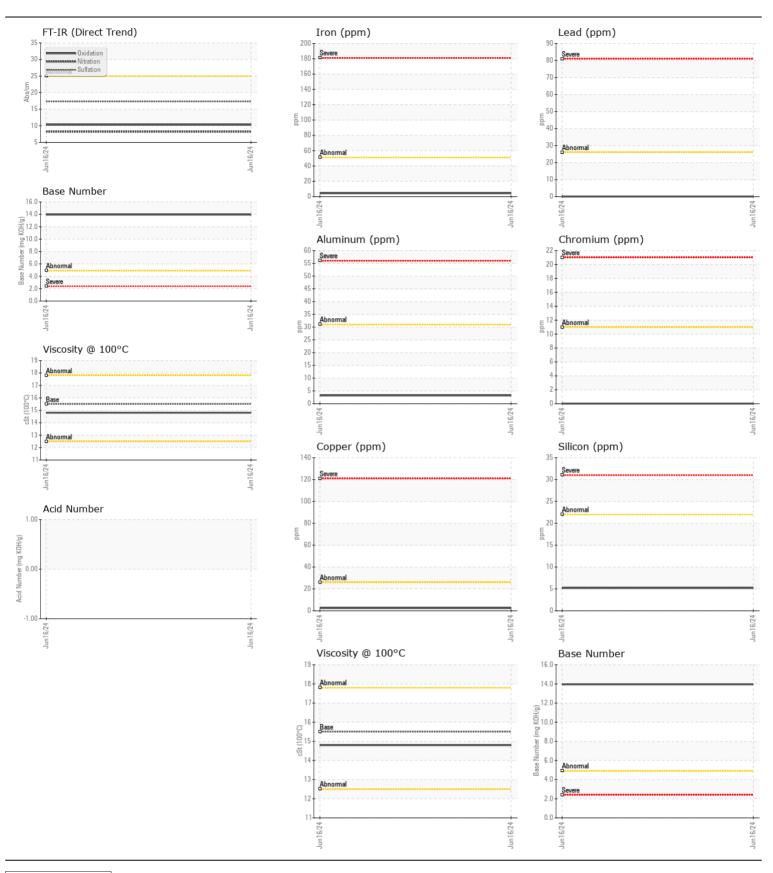
Machine Id

## **JOHN DEERE 4230 JOHN DEERE 4230**

Component
Diesel Engine

TRC PRO-SPEC III SYNTHETIC BLEND 15W40 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		TR06211973		
	Sample Date		Client Info		16 Jun 2024		
	Machine Age	hrs	Client Info		9193		
	Oil Age	hrs	Client Info		150		
	Filter Age	hrs	Client Info		150		
	Oil Changed		Client Info		Not Changd		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
VEAR			40714 05405				
VEAR	Iron	ppm	ASTM D5185m		4		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		0		
	Nickel	ppm	ASTM D5185m	>5	<1		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		3		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		2		
	Tin	ppm	ASTM D5185m	>4	0		
	Vanadium	ppm	ASTM D5185m	NICAIE	0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	5		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	3		
	Fuel		WC Method	>2.1	<1.0		
	Water		WC Method	>0.21	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.1		
	Nitration	Abs/cm	*ASTM D7624	>20	8.2		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	17.3		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	<b>Emulsified Water</b>	scalar	*Visual	>0.21	NEG		
LUD CONDITION	0 "		40TH DE (05	0.4			
LUID CONDITION	Sodium	ppm	ASTM D5185m	>31	3		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Boron	ppm	ASTM D5185m		16		
	Barium	ppm	ASTM D5185m		0		
	Mongonogo	ppm	ASTM D5185m		121		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		68		
	Calcium	ppm	ASTM D5185m		3843		
	Phosphorus	ppm	ASTM D5185m		692		
	Zinc	ppm	ASTM D5185m		803		
	Sulfur	ppm	ASTM D5185m	0.5	3992		
		Aha/1mm	^ACIM/D7/11/	< 75 5	10.3		
	Oxidation Base Number (BN)	Abs/.1mm	*ASTM D7414 ASTM D2896	>25	13.95		





Laboratory Sample No. Unique Number : 11084837

Lab Number : 06211973

: TR06211973

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

: 17 Jun 2024 Diagnosed

: 19 Jun 2024 : 19 Jun 2024 - Sean Felton

**CLAY MALLORY** 806 W 5TH ST WALLOWA, OR US 97885 Contact: RON GROGAN

Test Package : MOB 2 ( Additional Tests: TAN Man ) To discuss this sample report, contact Customer Service at 1-800-827-0711.

\* - 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) T:

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