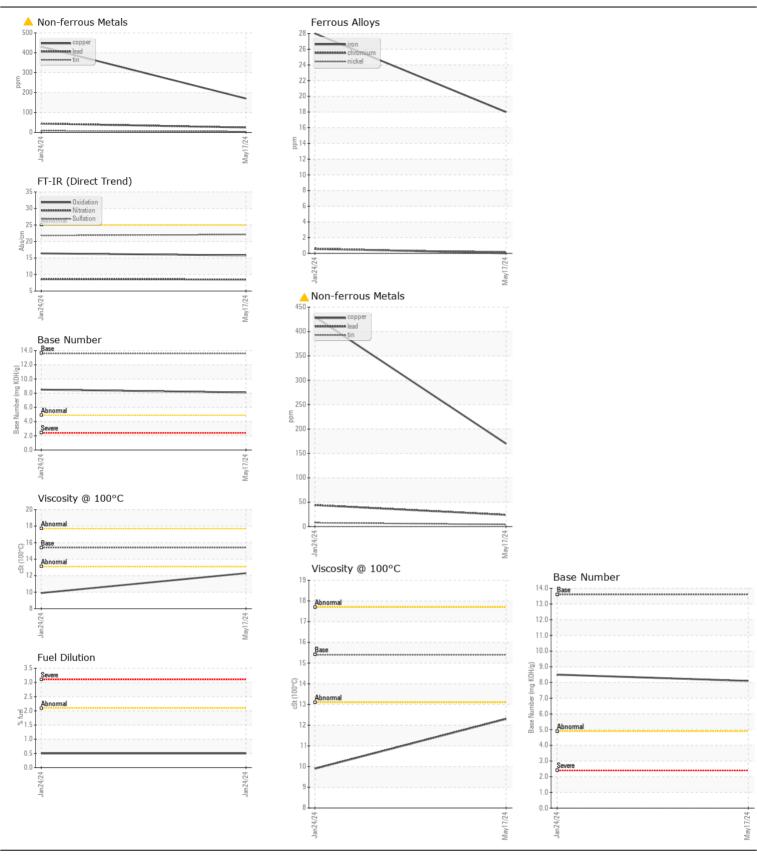
WEAR CONTAMINATION **FLUID CONDITION** **MARGINAL** NORMAL **NORMAL**

Machine Id

JOHN DEERE 944X 03734

Component Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		MT0006112	MT0005973	
	Sample Date		Client Info		17 May 2024	24 Jan 2024	
	Machine Age	hrs	Client Info		951	469	
	Oil Age	hrs	Client Info		0	0	
	Filter Age	hrs	Client Info		0	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				MARGINAL	ABNORMAL	
WEAD			40TH DE (05				
WEAR	Iron	ppm	ASTM D5185m		18	28	
The copper level has decreased, but is still abnormal. All other metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m		0	<1	
	Nickel	ppm	ASTM D5185m	>5	<1	<1	
	Titanium	ppm	ASTM D5185m		0	<1	
	Silver	ppm	ASTM D5185m		<1	0	
	Aluminum	ppm	ASTM D5185m		8	7	
	Lead	ppm	ASTM D5185m		24	44	
	Copper	ppm	ASTM D5185m		<u> </u>	<u>430</u>	
	Tin	ppm	ASTM D5185m	>4	4	8	
	Vanadium	ppm		NONE	<1 NONE	<1 NONE	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	8	14	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	3	7	
	Fuel	%	ASTM D3524	>2.1	<1.0	0.5	
	Water		WC Method	>0.21	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.4	0.4	
	Nitration	Abs/cm	*ASTM D7624	>20	8.5	8.6	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.1	21.8	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	
THIR CONDITION	015		AOTM DEADE	04	_	40	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	5	10	
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 ASTM D5185m		190 0	173	
	Barium Molybdenum	ppm	ASTM D5185m		251	<1 234	
	•	ppm	ASTM D5185m			11	
	Manganese Magnesium	ppm	ASTM D5185m		3 879	772	
	Calcium	ppm	ASTM D5185m		679 1426	1286	
	Phosphorus	ppm	ASTM D5185m		895	898	
	Zinc	ppm	ASTM D5185m		1105	1019	
	Sulfur	ppm	ASTM D5185m		3353	2864	
	Oxidation	Abs/.1mm	*ASTM D3163111	>25	15.8	16.4	
	Base Number (BN)				8.1	8.5	
	Visc @ 100°C	cSt		15.4	U. 1	9.9	







Certificate L2367

Laboratory Sample No.

: MT0006112 Lab Number : 06190171

Tested Unique Number : 11046923 Diagnosed Test Package : CONST (Additional Tests: FuelDilution, TBN)

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 24 May 2024 : 30 May 2024

: 30 May 2024 - Jonathan Hester

MURPHY TRACTOR - CAMBRIDGE 60611 HULSE DRIVE

CAMBRIDGE, OH US 43725

Contact: DUSTIN DAILEY DDAILEY@MURPHYTRACTOR.COM

Contact/Location: DUSTIN DAILEY - MURCAM

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)

F: (740)439-2325