OIL ANALYSIS REPORT

WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

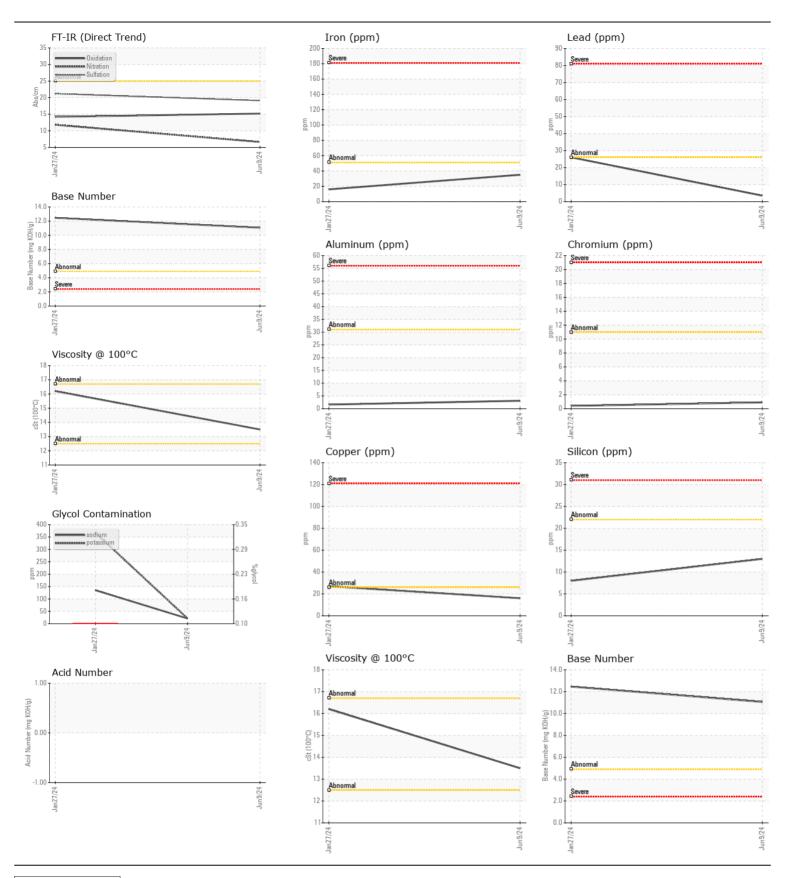
Machine Id

JOHN DEERE 4440 1

Component
Diesel Engine

MAG 1 MULTI SYNTHETIC 15W40 (4 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		TR06218428	TR06077835	
	Sample Date		Client Info		09 Jun 2024	27 Jan 2024	
	Machine Age	hrs	Client Info		0	5376	
	Oil Age	hrs	Client Info		50	126	
	Filter Age	hrs	Client Info		50	126	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Not Changd	Not Changd	
	Sample Status				NORMAL	SEVERE	
WEAR	Iron	ppm	ASTM D5185m	<u></u>	35	16	
MEAIT	Chromium	ppm	ASTM D5185m		<1	<1	
All component wear rates are normal.	Nickel		ASTM D5185m		<1	1	
		ppm		>0			
	Titanium	ppm	ASTM D5185m	0	<1	<1	
	Silver	ppm	ASTM D5185m		<1	0	
	Aluminum	ppm	ASTM D5185m		3	2	
	Lead	ppm	ASTM D5185m		4	<u>^</u> 26	
	Copper	ppm	ASTM D5185m		16	<u>^</u> 27	
	Tin	ppm	ASTM D5185m	>4	<1	<1	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	13	8	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	21	△ 367	
	Fuel		WC Method	>2.1	<1.0	<1.0	
	Water		WC Method	>0.21	NEG	NEG	
	Glycol	%	*ASTM D2982		NEG	▲ 0.10	
	Soot %	%	*ASTM D7844	>3	0.1	0.1	
	Nitration	Abs/cm	*ASTM D7624		6.6	11.8	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.1	21.2	
	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		*Visual	>0.21	NEG	NEG	
THIR CONDITION	O - all		AOTA DEADE	04	04	A 40E	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	21	<u></u> 135	
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		5	30	
	Barium	ppm	ASTM D5185m		<1	<1	
	Molybdenum	ppm	ASTM D5185m		66	64	
	Manganese	ppm	ASTM D5185m		2	<1	
	Magnesium	ppm	ASTM D5185m		1000	72	
	Calcium	ppm	ASTM D5185m		1354	2962	
	Phosphorus	ppm	ASTM D5185m		1129	761	
	Zinc	ppm	ASTM D5185m		1360	729	
	Sulfur	ppm	ASTM D5185m		4299	3140	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.2	14.2	
	Base Number (BN)	mg KOH/g	ASTM D2896		11.06	12.46	





Certificate L2367

Laboratory Sample No.

Lab Number : 06218428

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : TR06218428

Received **Tested** Unique Number : 11096625 Diagnosed

Test Package : MOB 2 (Additional Tests: PQ, 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)

: 24 Jun 2024

: 25 Jun 2024

: 25 Jun 2024 - Sean Felton

US 97885 Contact: RON GROGAN

T:

F: