WEAR CONTAMINATION **FLUID CONDITION**

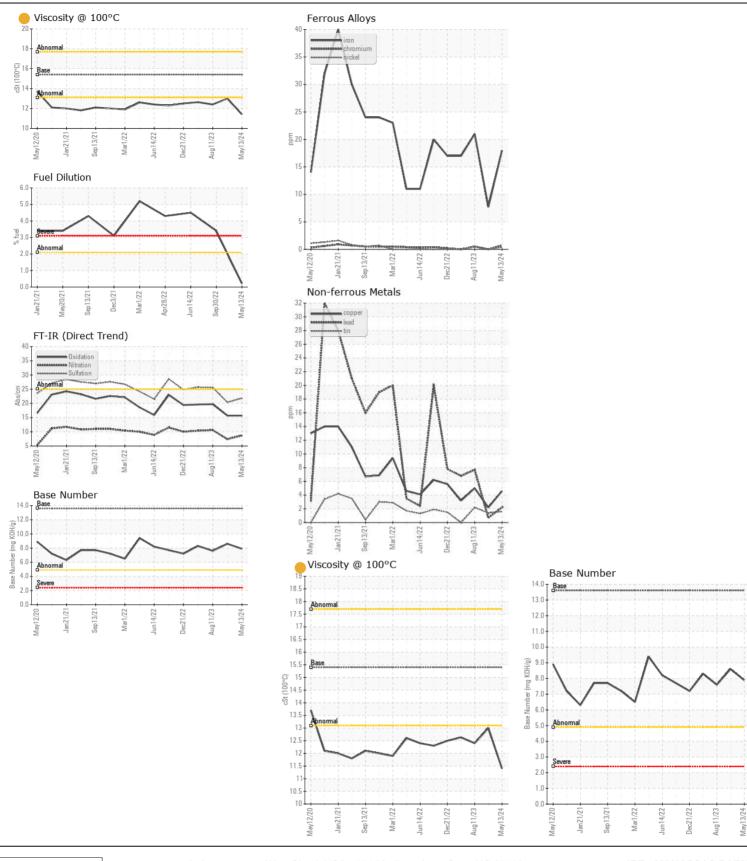
NORMAL NORMAL ATTENTION

Machine Id

JOHN DEERE 470G 1FF470GXKJF235252

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		JR0217658	JR0187441	JR017034
	Sample Date		Client Info		13 May 2024	03 Oct 2023	11 Aug 202
	Machine Age	hrs	Client Info		5860	5460	5370
	Oil Age	hrs	Client Info		0	0	426
	Filter Age	hrs	Client Info		0	0	426
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ATTENTION	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	18	8	21
VEAIL	Chromium	ppm	ASTM D5185m		<1	0	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	0	<1
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m	\3	0	0	0
	Aluminum	ppm	ASTM D5185m		6	3	6
	Lead	ppm	ASTM D5185m		2	<1	8
	Copper	ppm	ASTM D5185m		5	2	5
	Tin	ppm	ASTM D5185m		2	1	2
	Vanadium	ppm	ASTM D5185m		- <1	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	0.00		AOTA DEADE				
	Silicon	ppm	ASTM D5185m		8	8	11
Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		5	5	5
	Fuel	%	ASTM D3524		0.2	<1.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol	0/	WC Method *ASTM D7844	. 0	NEG	NEG	NEG 0.4
	Soot % Nitration	% Abs/cm	*ASTM D7644	>20	0.2 8.7	0.2 7.4	10.6
	Sulfation	Abs/.1mm	*ASTM D7624		21.8	20.4	25.6
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water		*Visual	>0.21	NEG	NEG	NEG
LUB CONDITION							
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	3	6	7
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Boron	ppm	ASTM D5185m		118	239	83
	Barium	ppm	ASTM D5185m		<1	0	0
	Molybdenum	ppm	ASTM D5185m		153	233	238
	Manganese	ppm	ASTM D5185m		<1	0 775	<1
	Magnesium	ppm	ASTM D5185m		549 1784	775	818
	Calcium	ppm	ASTM D5185m ASTM D5185m			1391 847	1406 832
	Phosphorus Zinc	ppm	ASTM D5165III		927 1100	1012	1048
	Sulfur	ppm	ASTM D5185m				3508
	Oxidation	ppm Abs/.1mm	*ASTM D7414	>25	3216 15.7	2903 15.7	19.7
	Base Number (BN)		ASTM D2896		7.9	8.6	7.6
	Dase Mulliper (DIV)	IIIU r\Un/0	49 I IVI D2090	10.0	7.9	0.0	7.0







Certificate L2367

Laboratory Sample No.

: JR0217658 Lab Number : 06178492

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

Tested Unique Number: 11029818 Diagnosed

Received : 14 May 2024 : 16 May 2024 : 16 May 2024 - Sean Felton

Test Package: CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

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)

JRE - MANASSAS PARK

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