**WEAR CONTAMINATION FLUID CONDITION** 

**NORMAL NORMAL ATTENTION** 

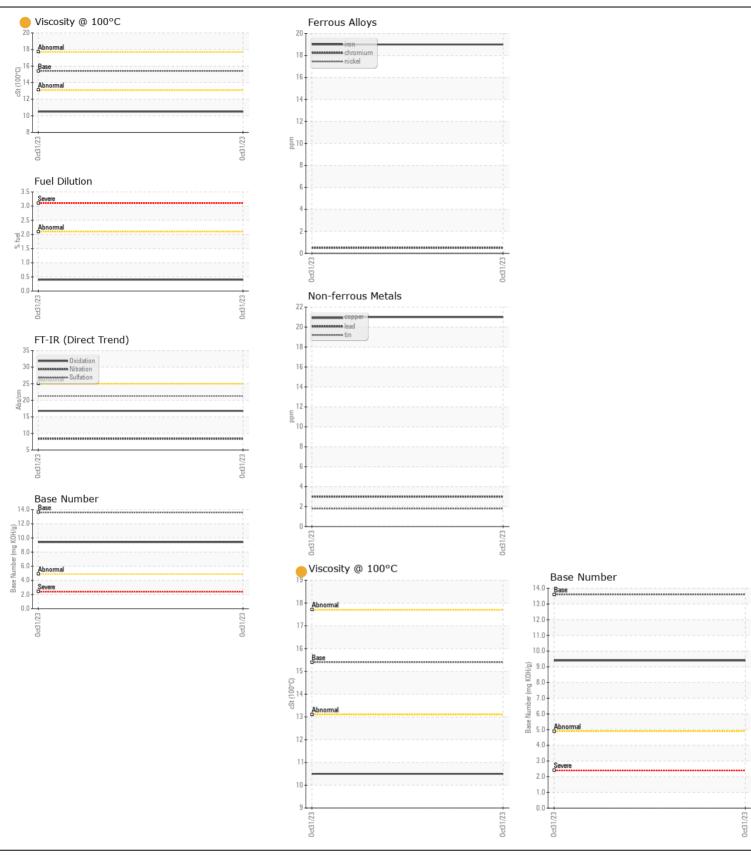
## [W31901 ASHLAND AG]

## JOHN DEERE 6110M 41006053 (S/N 1L016110MJNG169319)

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 IL 15W40 (--- GAL)

·	- GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		JR0163905		
	Sample Date		Client Info		31 Oct 2023		
	Machine Age	hrs	Client Info		377		
	Oil Age	hrs	Client Info		377		
	Filter Age	hrs	Client Info		377		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		N/A		
	Sample Status				ATTENTION		
MEAD	Iron	nnm	ASTM D5185m	. 51	40		
WEAR	Chromium	ppm			19		
All component wear rates are normal.		ppm	ASTM D5185m		<1		
	Nickel	ppm	ASTM D5185m	>5	0		
	Titanium	ppm	ASTM D5185m	0	<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		6		
	Lead	ppm	ASTM D5185m		3		
	Copper	ppm	ASTM D5185m		21		
	Tin	ppm	ASTM D5185m	>4	2		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	11		
	Potassium	ppm	ASTM D5185m	>20	14		
Fuel content negligible. There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524	>2.1	0.4		
	Water		WC Method	>0.21	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.2		
	Nitration	Abs/cm	*ASTM D7624	>20	8.4		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3		
	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		
	Emulsified Water		*Visual	>0.21	NEG		
LUID CONDITION	Sodium	ppm	ASTM D5185m	>31	4		
	Boron	ppm	ASTM D5185m		259		
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		2		
	Molybdenum	ppm	ASTM D5185m		259		
	Manganese	ppm	ASTM D5185m		3		
	Magnesium	ppm	ASTM D5185m		813		
	Calcium	ppm	ASTM D5185m		1349		
	Phosphorus	ppm	ASTM D5185m		821		
	Zinc	ppm	ASTM D5185m		1005		
	Sulfur	ppm	ASTM D5185m		3052		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.8		
	Dana Musekas (DM)		ASTM D2896	13.6	9.4		
	Base Number (BN)	IIIg NOI I/g	AOTIVI DE000	10.0	J.7		





Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0163905 Lab Number : 05997777

Unique Number : 10726137

Received : 03 Nov 2023 **Tested** : 06 Nov 2023 Diagnosed

: 06 Nov 2023 - Don Baldridge Test Package: CONST (Additional Tests: FuelDilution, PercentFuel, TBN)

JRE - ASHLAND 11053 LEADBETTER ROAD ASHLAND, VA US 23005

Contact: COLTON HANKS colton.hanks@jamesriverequipment.com

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.

T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (804)358-8431

Contact/Location: COLTON HANKS - JAMASH01