WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL

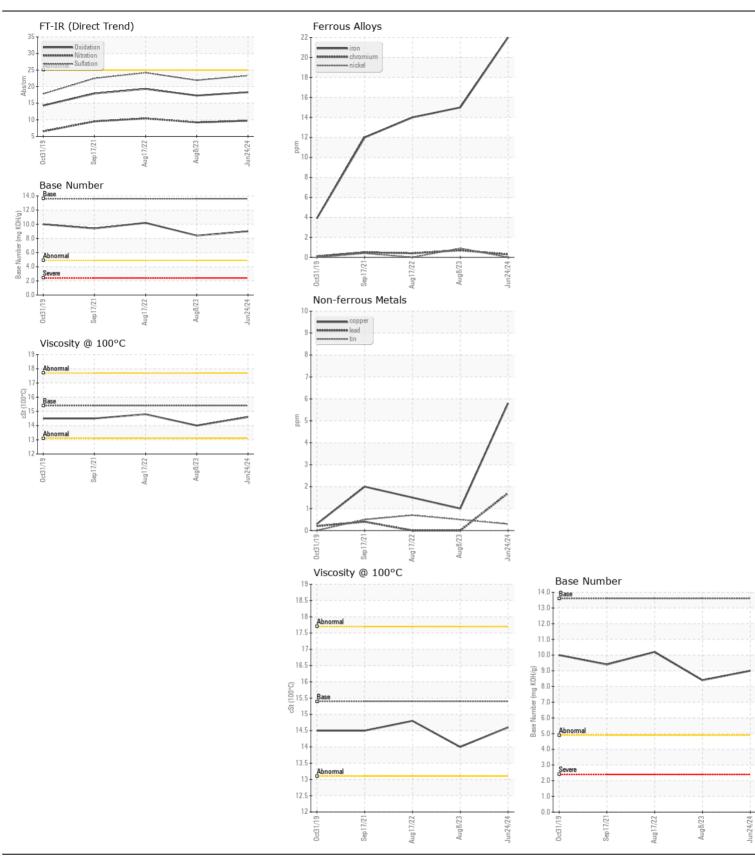
Machine Id

## JOHN DEERE 85G PM061145 (S/N 1FF085GXVGJ018786)

**Diesel Engine** 

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

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0221407	JR0170304	JR013769
	Sample Date		Client Info		24 Jun 2024	08 Aug 2023	17 Aug 202
	Machine Age	hrs	Client Info		4508	3971	3379
	Oil Age	hrs	Client Info		3971	0	0
	Filter Age	hrs	Client Info		3971	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	22	15	14
	Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	<1	0
	Titanium	ppm	ASTM D5185m		<1	<1	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	10	6	6
	Lead	ppm	ASTM D5185m		2	0	0
	Copper	ppm	ASTM D5185m	>26	6	1	2
	Tin	ppm	ASTM D5185m	>4	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	<b>-22</b>	15	11	12
CONTAMINATION	Potassium	ppm	ASTM D5185m		7	2	0
There is no indication of any contamination in the oil.	Fuel	ррт	WC Method		, <1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	7 O.L I	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.6	0.4	0.4
	Nitration	Abs/cm	*ASTM D7624		9.7	9.2	10.4
	Sulfation	Abs/.1mm	*ASTM D7415		23.3	21.9	24.2
	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
FLUID CONDITION	Sodium	nnm	ASTM D5185m	>31	7	0	<1
LOID GONDITION	Boron	ppm	ASTM D5185m	- 01	205	260	229
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		<1	<1	0
	Molybdenum	ppm	ASTM D5185m		257	249	243
	Manganese	ppm	ASTM D5185m		1	<1	<1
	Magnesium	ppm	ASTM D5185m		885	773	789
	Calcium	ppm	ASTM D5185m		1544	1397	1486
	Phosphorus	ppm	ASTM D5185m		979	860	906
	Zinc	ppm	ASTM D5185m		1169	1069	1083
	Sulfur	ppm	ASTM D5185m		3437	3075	3053
	Oxidation	Abs/.1mm	*ASTM D7414	>25	18.3	17.3	19.3
	Base Number (BN)				9.0	8.4	10.2
					U. U	U. 1	







Certificate L2367

Report Id: JAMWIN [WUSCAR] 06220823 (Generated: 06/27/2024 11:26:51) Rev: 1

Laboratory Sample No. Unique Number : 11099020

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0221407 Lab Number : 06220823

Received **Tested** Diagnosed

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

: 26 Jun 2024 : 27 Jun 2024 : 27 Jun 2024 - Wes Davis

JRE - STEPHENSON 245 YARDMASTER COURT STEPHENSON, VA US 22656-1761

Contact: PHIL DAUGHERTY

Test Package : CONST ( Additional Tests: 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.

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