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

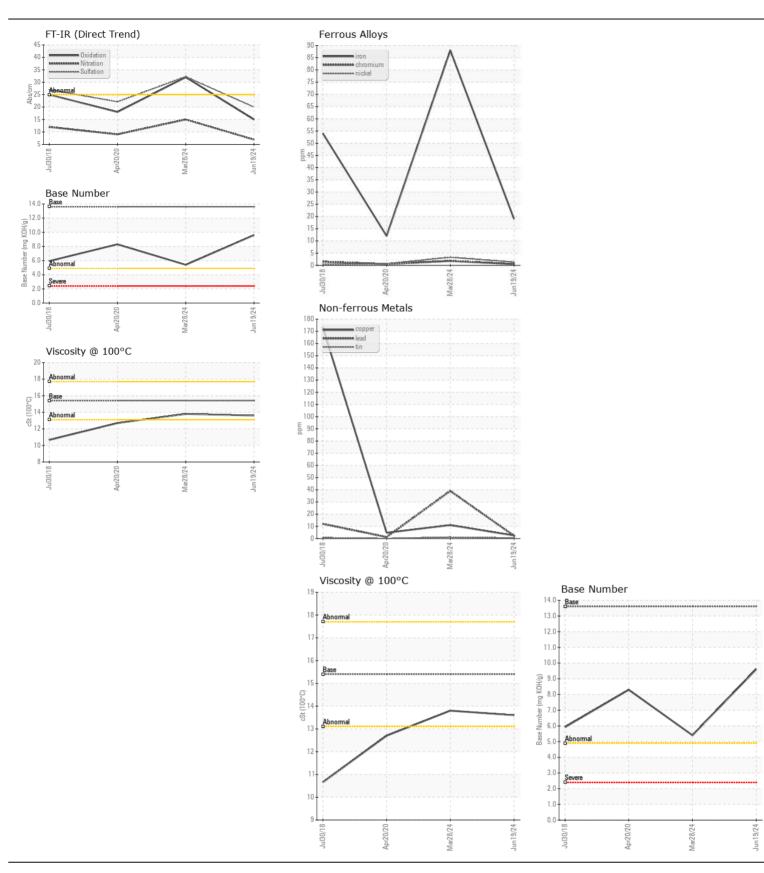
[A.C. KING]

## **JOHN DEERE 180G 1FF180GXCHF020760**

**Diesel Engine** 

IOUN DEEDE ENGINE OIL DI US 50 II 15W40 (5 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0217212	JR0206835	JR0046554
	Sample Date		Client Info		19 Jun 2024	28 Mar 2024	20 Apr 2020
	Machine Age	hrs	Client Info		4803	4624	2423
	Oil Age	hrs	Client Info		0	400	0
	Filter Age	hrs	Client Info		0	400	0
	Oil Changed		Client Info		Not Changd	Not Changd	Changed
	Filter Changed		Client Info		Not Changd	N/A	Changed
	Sample Status				NORMAL	ABNORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	19	<u> </u> 88	12
	Chromium	ppm	ASTM D5185m	>11	<1	2	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		1	3	<1
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		5	11	5
	Lead	ppm	ASTM D5185m		2	<b>△</b> 39	1
	Copper	ppm	ASTM D5185m		2	11	5
	Tin	ppm	ASTM D5185m		<1	1	0
	Vanadium	ppm	ASTM D5185m		<1	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	<b>-22</b>	8	12	9
CONTAININATION	Potassium	ppm	ASTM D5185m		3	2	1
There is no indication of any contamination in the oil.	Fuel	ррпп	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	70.21	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	~3	0.1	1	0.3
	Nitration	Abs/cm	*ASTM D7624		6.9	15.0	9
	Sulfation	Abs/.1mm	*ASTM D7415		20.0	32.2	22.1
	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	NORMI
	Odor	scalar	*Visual	NORML	NORML	NORML	NORMI
	Emulsified Water		*Visual	>0.21	NEG	NEG	NEG
ELLUD CONDITION	Cadium		ACTM DE10Em	. 01	.4	6	· · · · · · · · · · · · · · · · · · ·
FLUID CONDITION	Sodium	ppm	ASTM D5185m ASTM D5185m	>01	<1 307	6 24	193
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron Barium	ppm	ASTM D5185m		1	0	0
	Molybdenum	ppm	ASTM D5185m		260	246	235
	Manganese	ppm	ASTM D5185m		<1	1	<1
	Magnesium	ppm	ASTM D5185m		810	826	922
	Calcium	ppm	ASTM D5185m		1417	1462	1582
	Phosphorus	ppm	ASTM D5185m		908	875	908
	Zinc	ppm	ASTM D5185m		1028	1118	1074
	Sulfur	ppm	ASTM D5185m		3038	3229	2540
	Oxidation	Abs/.1mm	*ASTM D3163111	>25	15.0	32.0	18
			ASTM D7414 ASTM D2896		9.6	5.4	8.3







Report Id: RWMCAS [WUSCAR] 06215459 (Generated: 06/21/2024 12:20:42) Rev: 1

Laboratory Sample No.

Lab Number : 06215459

Unique Number : 11088323

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0217212 Received **Tested** 

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

: 20 Jun 2024 Diagnosed Test Package : CONST (Additional Tests: TBN)

: 21 Jun 2024 : 21 Jun 2024 - Wes Davis

JRE - CASTLE HAYNE 113 CROWATAN ROAD CASTLE HAYNE, NC US 28429-5819

Contact: WILMINGTON SHOP

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. todd.simmons@jamesriverequipment.com;canastasio@wearcheck.com;canastasio@we T: (910)675-9211

F: