WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

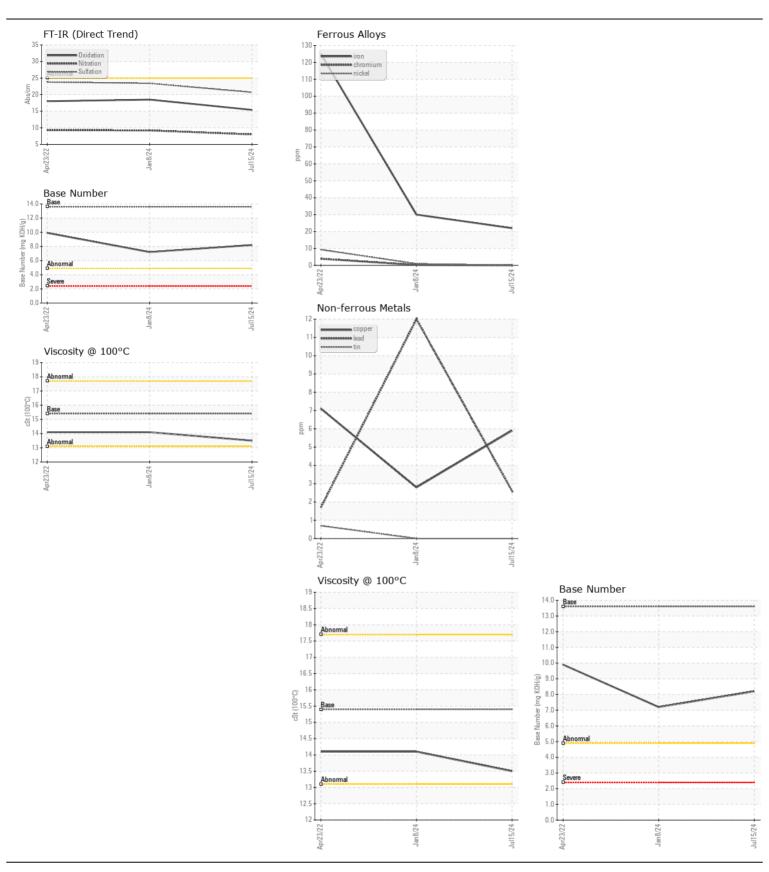
[05W48195]

## JOHN DEERE 160G C233358 (S/N 1FF160GXTLF058109)

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (18 QTS)

DECOMMENDATION	Tank	11014	Made	Line St / Alle	(O	I Baka mid	11:-4
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0226799	JR0196068	JR012323
	Sample Date	laua	Client Info		15 Jul 2024	08 Jan 2024	23 Apr 202
	Machine Age	hrs	Client Info		5710	4830	1909
	Oil Age	hrs	Client Info		500	500	1909
	Filter Age	hrs	Client Info		500	500	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed Sample Status		Client Info		Changed NORMAL	Changed NORMAL	Changed ABNORMA
							ADINOTIVIA
VEAR	Iron	ppm	ASTM D5185m		22	30	<u>125</u>
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		0	<1	4
	Nickel	ppm	ASTM D5185m	>5	0	<1	<u> </u>
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m		0	0	<1
	Aluminum	ppm	ASTM D5185m	>31	3	5	<b>1</b> 3
	Lead	ppm	ASTM D5185m		3	12	2
	Copper	ppm	ASTM D5185m	>26	6	3	7
	Tin	ppm	ASTM D5185m	>4	0	0	<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	>22	7	11	<u>^</u> 32
	Potassium	ppm	ASTM D5185m	>20	1	2	2
There is no indication of any contamination in the oil.	Fuel		WC Method	>2.1	<1.0	<1.0	<1.0
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.1	0.3	0.3
	Nitration	Abs/cm	*ASTM D7624	>20	8.0	9.2	9.3
	Sulfation	Abs/.1mm	*ASTM D7415		20.7	23.4	23.8
	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
	<b>Emulsified Water</b>		*Visual	>0.21	NEG	NEG	NEG
I LUD CONDITION	Sodium	nnm	ASTM D5185m	_31	4	3	 5
FLUID CONDITION	Boron	ppm	ASTM D5185m	/U I	162	153	188
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	0	0
	Molybdenum		ASTM D5185m		207	228	248
	Manganese	ppm	ASTM D5185m			0	2
		ppm	ASTM D5185m		<1 712	754	894
	Magnesium Calcium	ppm	ASTM D5185m		1582	1518	1631
	Phosphorus	ppm	ASTM D5185m		869	905	917
		ppm					
	Zinc	ppm	ASTM D5185m		1032	1094	1095
	Sulfur	ppm	ASTM D5185m		3413	3364	2736
	Outstat!	A la a / d	* A O T L A D 7 4 4 4	0.5	45.4		
	Oxidation Base Number (BN)	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896		15.4 8.2	18.5 7.2	18.0







Certificate L2367

Report Id: CDRCLAJR [WUSCAR] 06237565 (Generated: 07/17/2024 09:10:14) Rev: 1

Laboratory Sample No.

Lab Number : 06237565

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0226799

Unique Number: 11126399

Received **Tested** 

Diagnosed Test Package : CONST (Additional Tests: TBN)

: 17 Jul 2024

: 16 Jul 2024

: 17 Jul 2024 - Wes Davis

**C & D RECOVERY** 24024 FREDERICK RD CLARKSBURG, MD US 20871

Contact: HERBIE TRENT

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)

T:

F: