WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

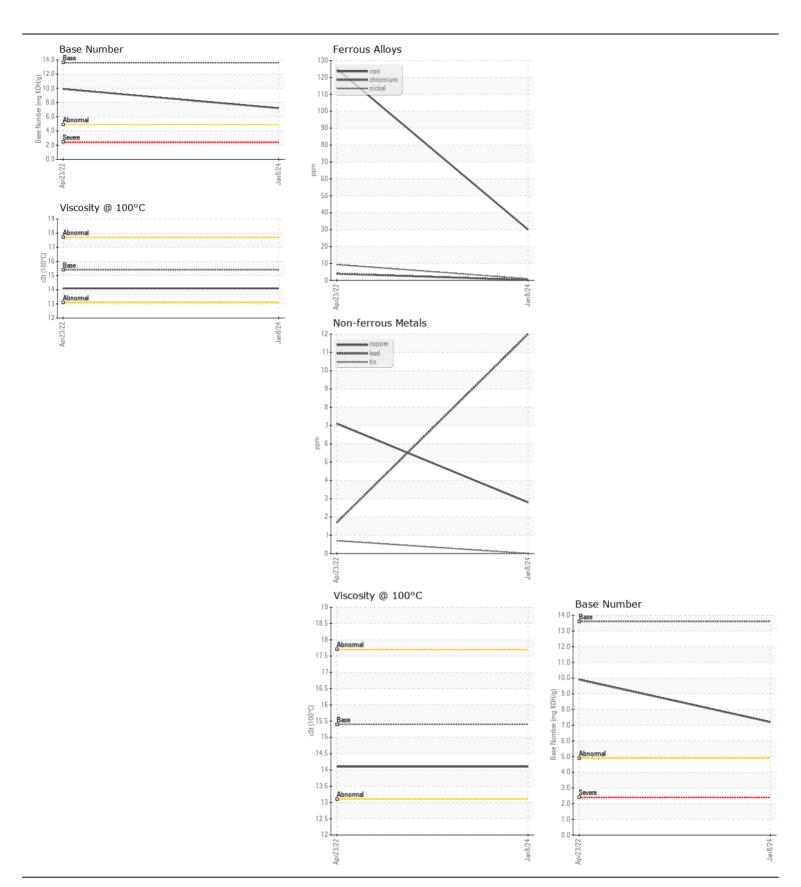
Area [05W44116]

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

Component Diesel Engine

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

ECOMMEND ATION	- .	11014	NA II	1 2 2 (A)			1.12
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0196068	JR0123230	
	Sample Date	le ere	Client Info		08 Jan 2024	23 Apr 2022	
	Machine Age	hrs	Client Info		4830	1909	
	Oil Age	hrs	Client Info		500	1909	
	Filter Age	hrs	Client Info		500	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	ABNORMAL	
WEAR All component wear rates are normal.	Iron	ppm	ASTM D5185m	>51	30	<u> </u>	
	Chromium	ppm	ASTM D5185m	>11	<1	4	
	Nickel	ppm	ASTM D5185m	>5	<1	<u>^</u> 9	
	Titanium	ppm	ASTM D5185m		0	<1	
	Silver	ppm	ASTM D5185m	>3	0	<1	
	Aluminum	ppm	ASTM D5185m		5	1 3	
	Lead	ppm	ASTM D5185m		12	2	
	Copper	ppm	ASTM D5185m		3	7	
	Tin	ppm	ASTM D5185m		0	<1	
	Vanadium	ppm	ASTM D5185m		0	<1	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
ONTAMINATION	Silicon	ppm	ASTM D5185m	>22	11	△ 32	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	2	2	
	Fuel		WC Method	>2.1	<1.0	<1.0	
	Water		WC Method	>0.21	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.3	0.3	
	Nitration	Abs/cm	*ASTM D7624	>20	9.2	9.3	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.4	23.8	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water		*Visual	>0.21	NEG	NEG	
LUB CONDITION	- "					_	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	3	5	
he BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		153	188	
oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		228	248	
	Manganese	ppm	ASTM D5185m		0	2	
	Magnesium	ppm	ASTM D5185m		754	894	
	Calcium	ppm	ASTM D5185m		1518	1631	
	Phosphorus	ppm	ASTM D5185m		905	917	
	Zinc	ppm	ASTM D5185m		1094	1095	
	Sulfur	ppm	ASTM D5185m		3364	2736	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	18.5	18.0	
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.2	9.9	
		cSt	ASTM D445		14.1	14.1	







Laboratory Sample No. Lab Number **Unique Number**

: JR0196068 : 06055731

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved Diagnosed : 10821680

: 10 Jan 2024 Diagnostician : Wes Davis

: 09 Jan 2024

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

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

Contact: HERBIE TRENT

T: F: