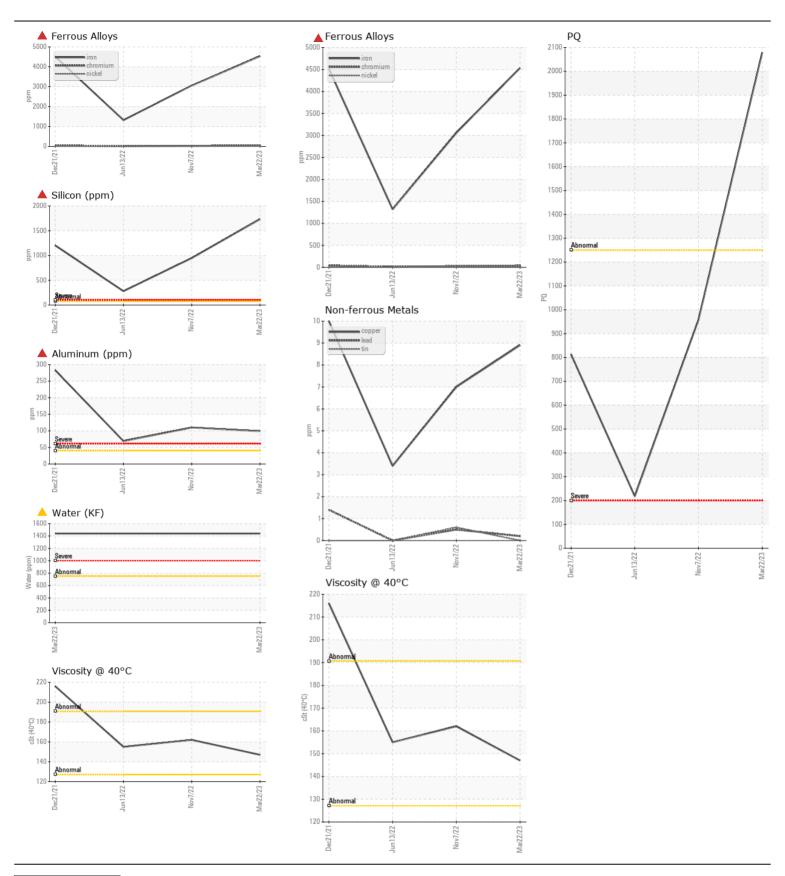
WEAR CONTAMINATION FLUID CONDITION

SEVERE SEVERE NORMAL

JOHN DEERE 180G 1FF180GXEJF020853

Component Rear Left Final Drive

JOHN DEERE GL-5 80W90 (GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. (Customer Sample Comment: W13167)	Sample Number		Client Info		JR0161040	JR0136230	JR0121713
	Sample Date		Client Info		22 Mar 2023	07 Nov 2022	13 Jun 2022
	Machine Age	hrs	Client Info		3521	3019	2474
	Oil Age	hrs	Client Info		1572	1070	525
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
	Filter Changed		Client Info		N/A	N/A	N/A
	Sample Status				SEVERE	SEVERE	SEVERE
WEAR	PQ		ASTM D8184	>1250	2078	958	218
Moderate concentration of visible metal present. Gear wear is indicated.	Iron	ppm	ASTM D5185m	>750	▲ 4532	▲ 3058	1 319
	Chromium	ppm	ASTM D5185m	>9	▲ 38	1 26	<u> </u>
	Nickel	ppm	ASTM D5185m	>10	10	7	1
	Titanium	ppm	ASTM D5185m		20	14	5
	Silver	ppm	ASTM D5185m		0	0	<1
	Aluminum	ppm	ASTM D5185m	>40	4 99	1 10	69
	Lead	ppm	ASTM D5185m	>15	<1	<1	0
	Copper	ppm	ASTM D5185m	>40	9	7	3
	Tin	ppm	ASTM D5185m	>10	0	<1	0
	Vanadium	ppm	ASTM D5185m		<1	<1	<1
	White Metal	scalar	*Visual	NONE	▲ MODER	MODER	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>75	▲ 1732	4 949	280
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina- silicate (coarse dirt) ingress. There is a light concentration of water present in the oil.	Potassium	ppm	ASTM D5185m	>20	10	13	6
	Water	%	ASTM D6304	>0.075	4 0.144		
	ppm Water	ppm	ASTM D6304	>750	<u> </u>		
	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	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.075	0.2%	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>51	<1	4	4
The oil is no longer serviceable due to the presence of contaminants.	Boron	ppm	ASTM D5185m		15	22	22
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		4	3	1
	Manganese	ppm	ASTM D5185m		34	24	12
	Magnesium	ppm	ASTM D5185m		13	23	16
	Calcium	ppm	ASTM D5185m		24	54	26
	Phosphorus	ppm	ASTM D5185m		390	329	320
	Zinc	ppm	ASTM D5185m		6	22	15
	Sulfur	ppm	ASTM D5185m		20055	19104	14843
	Visc @ 40°C	cSt	ASTM D445		147	162	155





Laboratory

Sample No. Lab Number : 05801752

: JR0161040 Unique Number : 10399281

To discuss this sample report, contact Customer Service at 1-800-237-1369.

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

: 24 Mar 2023 : 28 Mar 2023 Diagnosed Test Package : CONST (Additional Tests: KF, PQ)

: 29 Mar 2023 - Don Baldridge

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

Contact: MARC BAKER marc.baker@jamesriverequipment.com

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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