WEAR CONTAMINATION **FLUID CONDITION**

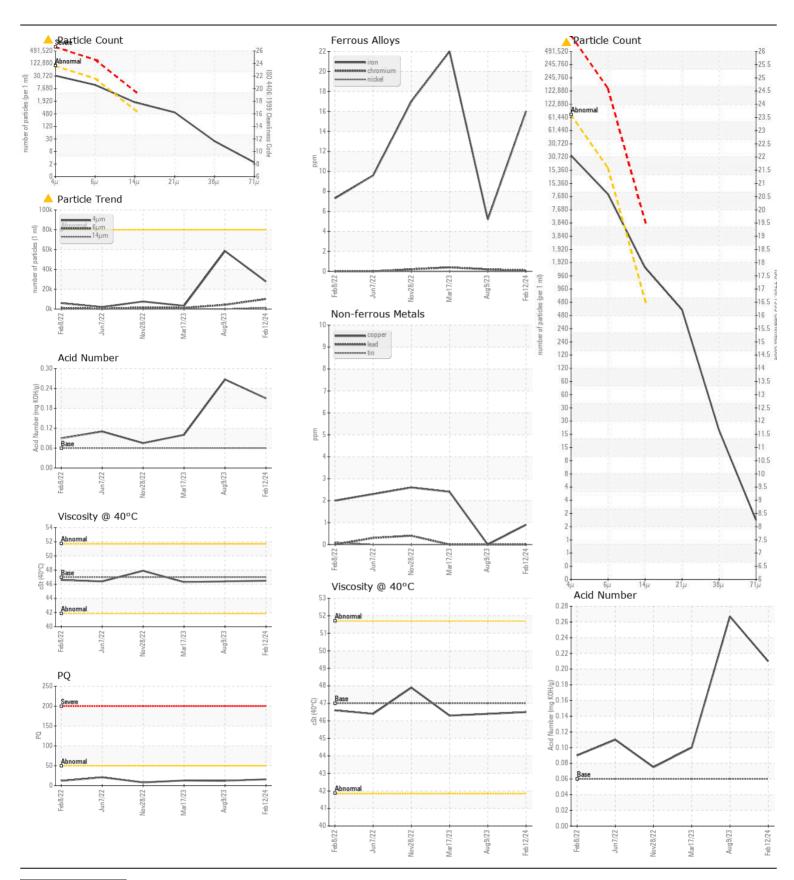
NORMAL ABNORMAL NORMAL

[44506]

JOHN DEERE 85G 1FF085GXAMJ022510

Component
Hydraulic System

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.	Sample Number		Client Info		JR0199102		JR014996
	Sample Date		Client Info		12 Feb 2024	09 Aug 2023	17 Mar 202
	Machine Age	hrs	Client Info		2914	2407	1919
	Oil Age	hrs	Client Info		1456	1437	1424
	Filter Age	hrs	Client Info		0	1437	0
	Oil Changed		Client Info		Not Changd	Not Changd	N/A
	Filter Changed Sample Status		Client Info		Changed	Not Changd	N/A
	Sample Status				ABNORMAL	NORMAL	NORMAL
VEAR	PQ		ASTM D8184	>50	16	12	13
	Iron	ppm	ASTM D5185m	>32	16	5	22
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>9	<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m		0	0	0
	Aluminum	ppm	ASTM D5185m		1	<1	1
	Lead	ppm	ASTM D5185m	>28	0	0	0
	Copper	ppm	ASTM D5185m		<1	0	2
	Tin	ppm	ASTM D5185m	>5	0	0	0
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>11	2	<1	1
	Potassium	ppm	ASTM D5185m	>20	1	0	<1
There is a moderate amount of particulates (2 to 100 microns in size) present in the oil.	Water		WC Method	>0.075	NEG	NEG	NEG
	Particles >4µm		ASTM D7647	>80000	27722	58550	3260
	Particles >6µm		ASTM D7647	>20000	10076	4324	1135
	Particles >14μm		ASTM D7647	>640	<u> </u>	43	124
	Particles >21µm		ASTM D7647		<u>491</u>	9	35
	Particles >38μm		ASTM D7647		21	0	1
	Particles >71μm		ASTM D7647		2	0	0
	Oil Cleanliness		ISO 4406 (c)		<u>A</u> 22/21/18	23/19/13	19/17/1
	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	NORN
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	visuai	>0.075	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>21	0	0	2
	Boron	ppm	ASTM D5185m		0	0	0
The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.	Barium	ppm	ASTM D5185m		2	0	0
	Molybdenum	ppm	ASTM D5185m		0	0	0
	Manganese	ppm	ASTM D5185m		0	0	<1
	Magnesium	ppm	ASTM D5185m		2	0	1
	Calcium	ppm	ASTM D5185m		65	0	2
	Phosphorus	ppm	ASTM D5185m		243	546	427
	Zinc	ppm	ASTM D5185m		65	0	50
	Sulfur	ppm	ASTM D5185m		305	54	551
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.21	0.267	0.10
	Visc @ 40°C	cSt	ASTM D445	47	46.5	46.4	46.3





Laboratory Sample No. Lab Number Unique Number : 10876961

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0199102 : 06089516

Received **Tested**

: 14 Feb 2024 : 15 Feb 2024

: 15 Feb 2024 - Wes Davis Diagnosed

Test Package : CONST (Additional Tests: PQ) 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)

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