WEAR CONTAMINATION FLUID CONDITION

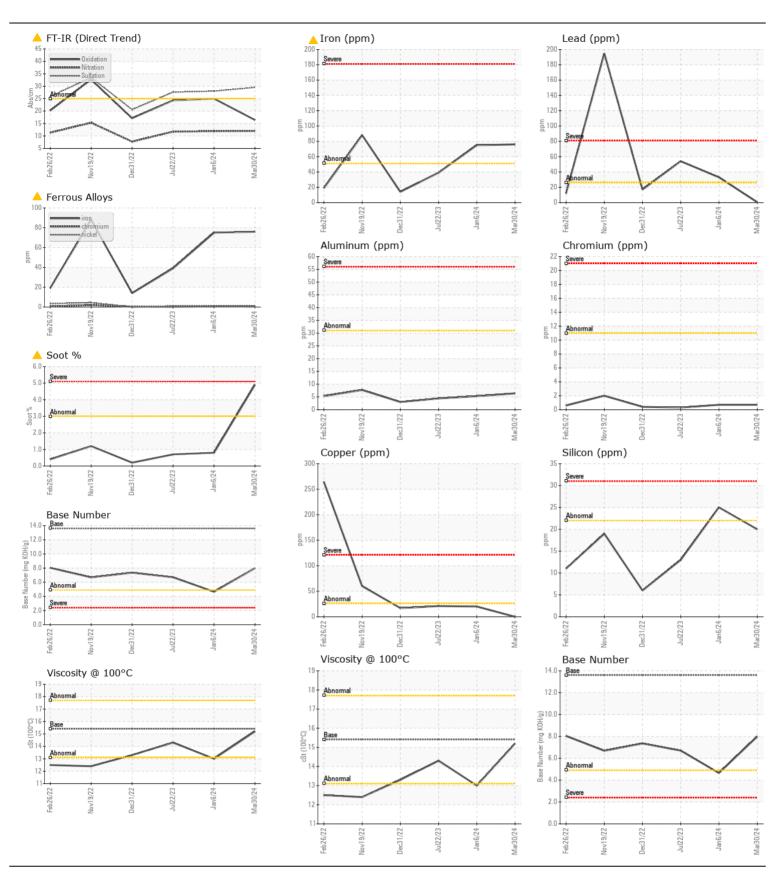
ABNORMAL ABNORMAL NORMAL

Machine Id

## JOHN DEERE 470G 687 (S/N 1FF470GXLKF236264)

Component Diesel Engine

	GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
We advise that you check for faulty combustion, plugged air filters, or aftercoolers. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		RO06157113	RO06070105	RO05934549
	Sample Date		Client Info		30 Mar 2024	06 Jan 2024	22 Jul 2023
	Machine Age	hrs	Client Info		5031	4540	3735
	Oil Age	hrs	Client Info		456	805	700
	Filter Age	hrs	Client Info		456	805	700
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	NORMAL	ABNORMAL
WEAR	Iron	ppm	ASTM D5185m	>51	<b>^</b> 76	75	39
The form board in the county	Chromium	ppm	ASTM D5185m	>11	<1	<1	<1
The iron level is abnormal.	Nickel	ppm	ASTM D5185m	>5	0	<1	1
	Titanium	ppm	ASTM D5185m		<1	<1	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>31	6	5	4
	Lead	ppm	ASTM D5185m	>26	<1	33	<u></u> 54
	Copper	ppm	ASTM D5185m	>26	0	20	21
	Tin	ppm	ASTM D5185m	>4	<1	4	3
	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	20	25	13
	Potassium	ppm	ASTM D5185m	>20	4	13	4
There is an abnormal amount of solids and carbon present in the oil.	Fuel	%	ASTM D3524	>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	<b>4.9</b>	0.8	0.7
	Nitration	Abs/cm	*ASTM D7624	>20	12.0	11.9	11.7
	Sulfation	Abs/.1mm	*ASTM D7415	>30	29.5	28.0	27.6
	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	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	2	14	14
	Boron	ppm	ASTM D5185m		71	24	25
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		25	24	240
	Manganese	ppm	ASTM D5185m		<1	1	<1
	Magnesium	ppm	ASTM D5185m		173	86	801
	Calcium	ppm	ASTM D5185m		2118	2185	1681
	Phosphorus	ppm	ASTM D5185m		1065	882	900
	Zinc	ppm	ASTM D5185m		1212	1153	1135
	Sulfur	ppm	ASTM D5185m		3795	3785	3244
	Oxidation	Abs/.1mm	*ASTM D7414	>25	16.4	25.0	24.3
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.98	4.65	6.70
	Visc @ 100°C	cSt	ASTM D445	15.4	15.2	13.0	14.3





Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : RO06157113 Lab Number : 06157113

Unique Number: 10992536

**Tested** Diagnosed Test Package: MOB 2 (Additional Tests: FuelDilution)

Received : 22 Apr 2024 : 25 Apr 2024

: 25 Apr 2024 - Jonathan Hester

301 WORTH ST HEMPHILL, TX US 75948 Contact: JODIE MCGEE jodie.mcgee@big4inc.com

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.

F: (409)787-2071 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T: (936)275-7532

**BIG 4 INC**