WEAR CONTAMINATION FLUID CONDITION

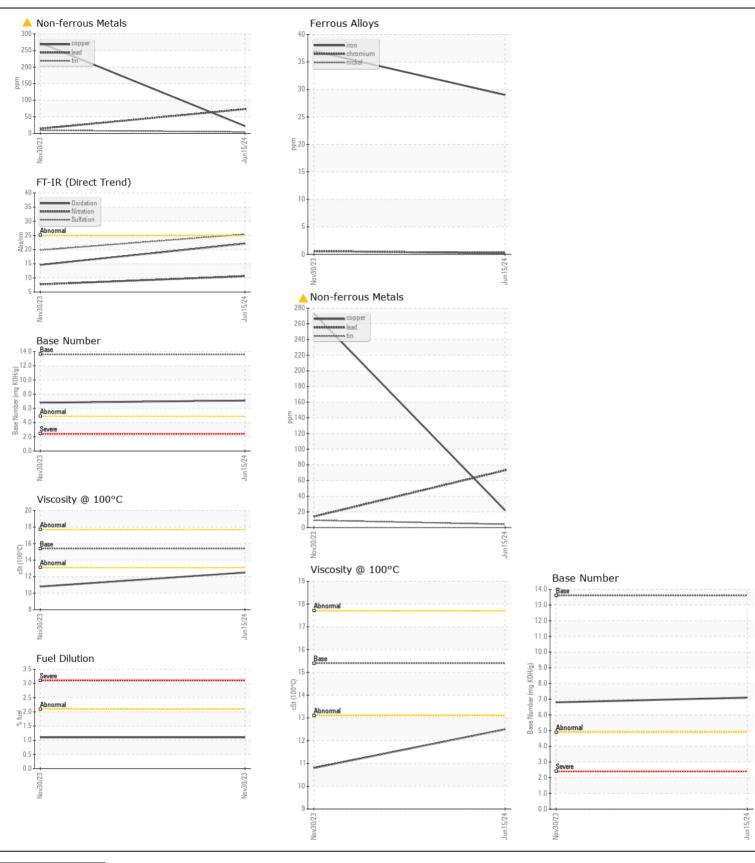
ABNORMAL NORMAL NORMAL

Machine Id

JOHN DEERE 470 P 1FF470PAJPF000355

Diesel Engine

	GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		JR0220230		
	Sample Date		Client Info		15 Jun 2024	30 Nov 2023	
	Machine Age	hrs	Client Info		1522	468	
	Oil Age	hrs	Client Info		1054	468	
	Filter Age	hrs	Client Info		0	468	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				ABNORMAL	ABNORMAL	
WEAR	Iron	ppm	ASTM D5185m	>51	29	37	
The lead level is abnormal. All other component wear rates are normal.	Chromium	ppm	ASTM D5185m	>11	<1	<1	
	Nickel	ppm	ASTM D5185m	>5	<1	<1	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m	>3	0	0	
	Aluminum	ppm	ASTM D5185m	>31	6	5	
	Lead	ppm	ASTM D5185m	>26	4 73	14	
	Copper	ppm	ASTM D5185m	>26	22	<u> </u>	
	Tin	ppm	ASTM D5185m		4	9	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	10	13	
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	9	14	
	Fuel	%	ASTM D3524	>2.1	<1.0	1.1	
	Water		WC Method	>0.21	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.5	0.2	
	Nitration	Abs/cm	*ASTM D7624	>20	10.6	7.7	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	25.4	19.8	
	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	scalar	*Visual	>0.21	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	6	10	
The BN result indicates that there is suitable alkalinity remaining in the	Boron	ppm	ASTM D5185m		51	121	
oil. The condition of the oil is acceptable for the time in service.	Barium	ppm	ASTM D5185m		0	1	
	Molybdenum	ppm	ASTM D5185m		207	195	
	Manganese	ppm	ASTM D5185m		2	7	
	Magnesium	ppm	ASTM D5185m		765	700	
	Calcium	ppm	ASTM D5185m		1556	1388	
	Phosphorus	ppm	ASTM D5185m		1022	914	
	Zinc	ppm	ASTM D5185m		1192	1055	
	Sulfur	ppm	ASTM D5185m		3246	2537	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	22.1	14.6	
					7.1	6.8	
	Base Number (BN)	IIIg NOII/u	AOTIVI DE000	10.0	7.1	0.0	







Certificate L2367

Laboratory Sample No.

Lab Number : 06213313 Unique Number : 11086177

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0220230

Received **Tested** Diagnosed

: 19 Jun 2024 Test Package : CONST (Additional Tests: FuelDilution, TBN)

: 20 Jun 2024 - Sean Felton

: 18 Jun 2024

9550 STATESVILLE ROAD CHARLOTTE, NC US 28269 Contact: CHARLOTTE SHOP

JRE - CHARLOTTE

myoung@jamesriverequipment.com

T: (704)597-0211

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) F: (704)596-6198