WEAR CONTAMINATION FLUID CONDITION

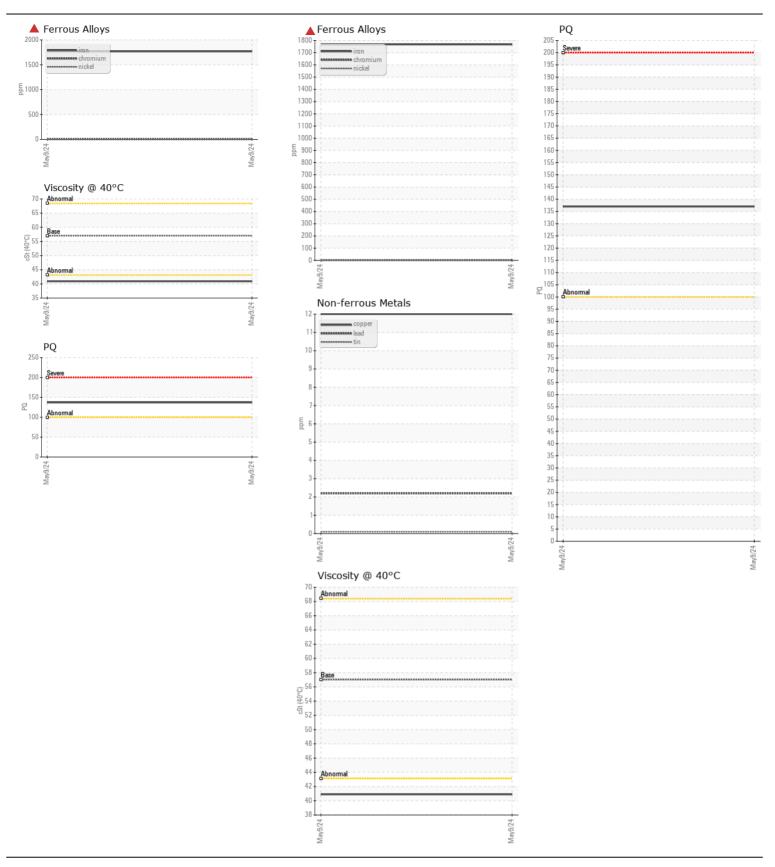
SEVERE NORMAL NORMAL

Machine Id

JOHN DEERE 544J C9012324 (S/N Dw544jz596765)

Rear Axle

JOHN DEERE HY-GARD HYD/TRANS (18 QTS)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.	Sample Number		Client Info		JR0213918		
	Sample Date		Client Info		09 May 2024		
	Machine Age	hrs	Client Info		9223		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		N/A		
	Sample Status				SEVERE		
WEAR	PQ		ASTM D8184		137		
Gear wear is indicated.	Iron	ppm	ASTM D5185m	>750	1768		
	Chromium	ppm	ASTM D5185m	>11	2		
	Nickel	ppm	ASTM D5185m	>10	2		
	Titanium	ppm	ASTM D5185m		2		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>21	6		
	Lead	ppm	ASTM D5185m	>49	2		
	Copper	ppm	ASTM D5185m	>101	12		
	Tin	ppm	ASTM D5185m	>10	<1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m	>31	25		
	Potassium	ppm	ASTM D5185m	>20	10		
	Water		WC Method	>0.1	NEG		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.1	NEG		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>51	7		
The oil is no longer serviceable as a result of the abnormal and/or severe wear.	Boron	ppm	ASTM D5185m	6	40		
	Barium	ppm	ASTM D5185m	0	2		
	Molybdenum	ppm	ASTM D5185m	0	11		
	Manganese	ppm	ASTM D5185m		14		
	Magnesium	ppm	ASTM D5185m	145	49		
	Calcium	ppm	ASTM D5185m	3570	2562		
	Phosphorus	ppm	ASTM D5185m	1290	1340		
	Zinc	ppm	ASTM D5185m	1640	1212		
	Sulfur	ppm	ASTM D5185m		5287		
	Visc @ 40°C	cSt	ASTM D445	57.0	40.9		





Certificate L2367

Laboratory Sample No.

: JR0213918 Lab Number : 06177420

Unique Number : 11023473

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 13 May 2024 **Tested**

: 14 May 2024 Diagnosed

: 15 May 2024 - Don Baldridge

JRE - GREENVILLE 3604 HIGHWAY 264 E GREENVILLE, NC US 27834-5800 Contact: Jeffrey Moore

Test Package : CONST (Additional Tests: PQ) To discuss this sample report, contact Customer Service at 1-800-237-1369.

jeffrey.moore@jamesriverequipment.com T:

* - 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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