

WEAR **SEVERE** CONTAMINATION NORMAL FLUID CONDITION NORMAL



JOHN DEERE 644 P 1DW644PACNLZ15458

Rear Differential

JOHN DEERE HY-GARD HYD/TRANS (6 GAL)

RECOMMENDATION

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.

WEAR

Bearing and/or bushing wear is indicated.

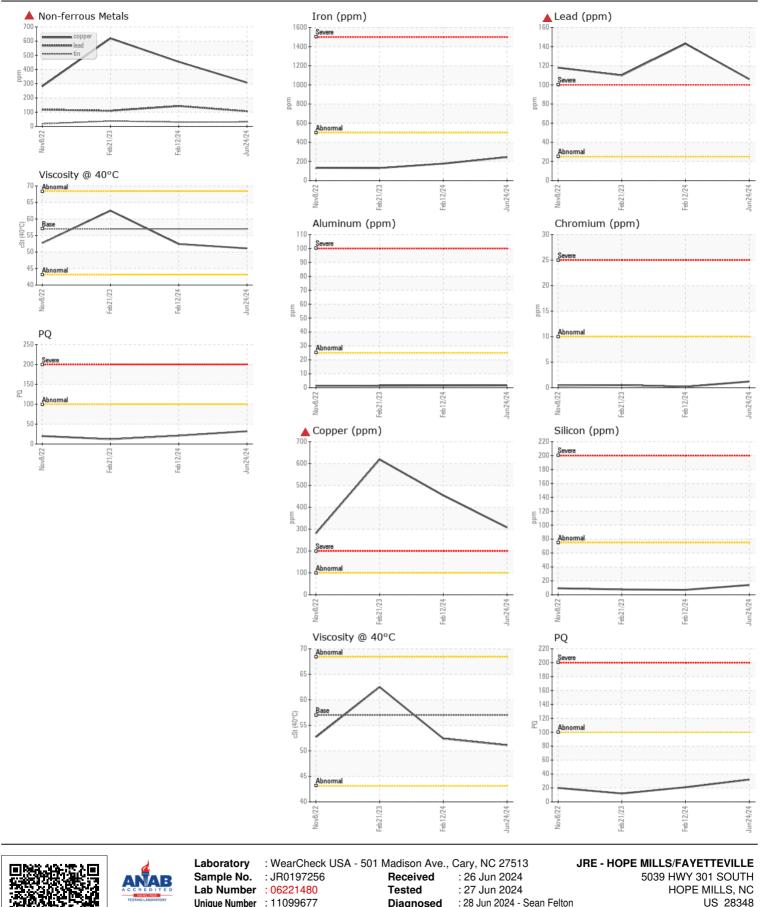
CONTAMINATION

There is no indication of any contamination in the oil.

FLUID CONDITION

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

	AL)					
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0197256	JR0197290	JR0156240
Sample Date		Client Info		24 Jun 2024	12 Feb 2024	21 Feb 2023
Machine Age	hrs	Client Info		1736	1504	962
Oil Age	hrs	Client Info		0	1504	0
Filter Age	hrs	Client Info		0	526	0
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Filter Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				SEVERE	SEVERE	SEVERE
PQ		ASTM D8184	=	32	21	12
Iron	ppm	ASTM D5185m	>500	245	177	131
Chromium	ppm	ASTM D5185m	>10	1	<1	<1
Nickel	ppm	ASTM D5185m	>10	<1	<1	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	2	1
Lead	ppm	ASTM D5185m	>25	1 06	1 43	1 10
Copper	ppm	ASTM D5185m	>100	3 08	4 54	6 19
Tin	ppm	ASTM D5185m	>10	A 31	4 30	4 37
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	MODER	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>75	14	7	8
Potassium	ppm	ASTM D5185m	>20	<1	2	3
Water		WC Method	>.2	NEG	NEG	NEG
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	>.2	NEG	NEG	NEG
Sodium		ASTM D5185m		7	1	4
Boron	ppm ppm	ASTM D5185m	6	7 <1	0	<1
Barium		ASTM D5185m	0	3	13	0
Molybdenum	ppm ppm	ASTM D5185m	0	-1	<1	1
Manganese		ASTM D5185m	0	8	5	5
Magnesium	ppm	ASTM D5185m	145	94	77	77
Calcium	ppm	ASTM D5185m	3570	94 3282	2705	2946
Phosphorus	ppm	ASTM D5185m	1290	999	988	921
Zinc	ppm	ASTM D5185m	1640	999 1017	982	921
Sulfur	ppm	ASTM D5185m	1040		3692	3522
Sullui	ppm	MOTIVI DOTOOII		3727	3092	3522
Visc @ 40°C	cSt	ASTM D445	57.0	51.1	52.4	62.5



: 28 Jun 2024 - Sean Felton Unique Number : 11099677 Diagnosed Test Package : MOBCE (Additional Tests: PQ) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. stephen.mullis@jamesriverequipment.com;canastasio@wearcheck.com * - 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)

T:

F:

Contact: FAYETTEVILLE SHOP