

Current

JR0225423

17 Jul 2024

Not Changd

21311

19615

0

History1

06 Mar 2024

20786

19686

0

History2

15 Feb 2023

19497

0

0

Not Changd Not Changd

JR0208385 JR0157754

Machine Id JOHN DEERE 644J C002750 (S/N DW6443X598071) **Front Differential**

Test

Sample Number

Sample Date

Machine Age

Oil Age

Filter Age

Oil Changed

UOM

hrs

hrs

hrs

Method

Client Info

Client Info

Client Info

Client Info

Client Info

Client Info

Limit/Abn

JOHN DEERE HY-GARD HYD/TRANS (30 QTS)

RECOMMENDATION

We advise that you check for the source of water entry. We advise that you check all areas where dirt can enter the system. 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

Gear wear is indicated.

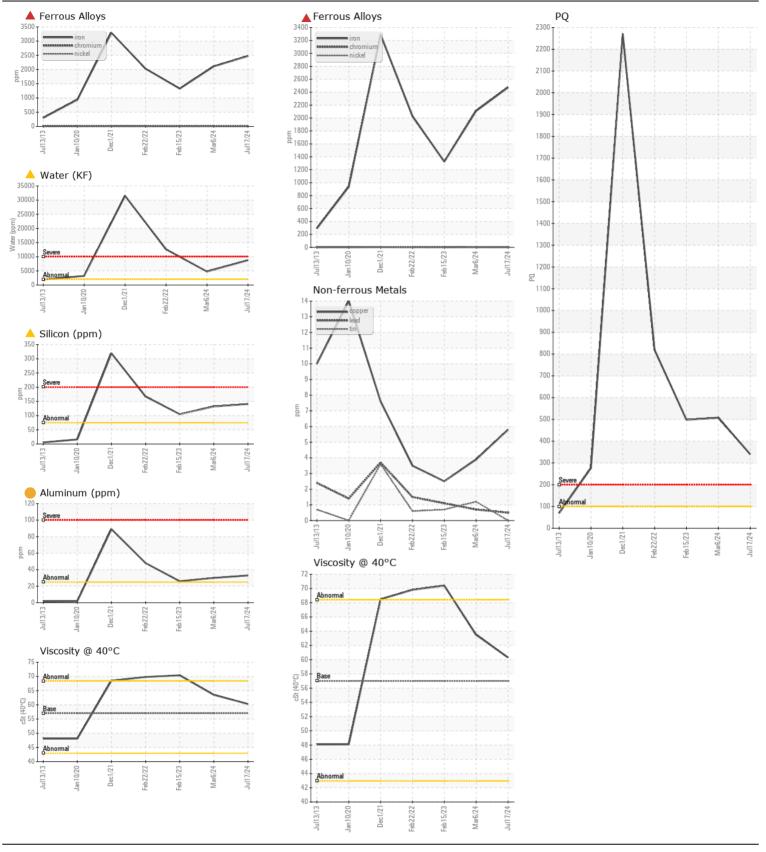
CONTAMINATION

There is a high concentration of water present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

	on onlangou				1101	onungu	110	r onungu	140	onungu
	Filter Changed		Client Info		No	ne	N/	A	N/	A
	Sample Status				SE	VERE	SE	EVERE	AB	NORMAL
	PQ		ASTM D8184			340		508		498
	Iron	ppm	ASTM D5185m	>500		2472		2110		1325
	Chromium	ppm	ASTM D5185m	>10		3		3		2
	Nickel	ppm	ASTM D5185m	>10	1	2		2		1
	Titanium	ppm	ASTM D5185m		4	4		2		2
	Silver	ppm	ASTM D5185m		•	<1		<1		0
	Aluminum	ppm	ASTM D5185m	>25	•	33		30		26
	Lead	ppm	ASTM D5185m	>25		<1		<1		1
	Copper	ppm	ASTM D5185m	>100	(6		4		2
	Tin	ppm	ASTM D5185m	>10	(D		1		<1
	Vanadium	ppm	ASTM D5185m		.	<1		<1		<1
	White Metal	scalar	*Visual	NONE	1	NONE		NONE		NONE
	Yellow Metal	scalar	*Visual	NONE	1	NONE		NONE		NONE
	0							400		405
	Silicon	ppm	ASTM D5185m	>75		141		132		105
	Potassium	ppm	ASTM D5185m	>20		6		4		2
	Water	%	ASTM D6304	>.2		0.879	A	0.476		
	ppm Water	ppm	ASTM D6304	>2000		8790		4760		
	Silt	scalar	*Visual	NONE		NONE		NONE		NONE
	Debris	scalar	*Visual	NONE		NONE		NONE		LIGHT
	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	(0.2%		0.2%		NEG
	Sodium	ppm	ASTM D5185m			D		6		4
	Boron	ppm	ASTM D5185m	6		5		2		3
	Barium	ppm	ASTM D5185m	0		D		0		0
	Molybdenum	ppm	ASTM D5185m	0		1		0		<1
	Manganese	ppm	ASTM D5185m			21		19		12
	Magnesium	ppm	ASTM D5185m	145		113		121		111
	Calcium	ppm	ASTM D5185m	3570	:	3253		3181		3477
	Phosphorus	ppm	ASTM D5185m	1290		1006		990		868
	Zinc	ppm	ASTM D5185m	1640		1186		1155		1071
	Sulfur	ppm	ASTM D5185m			4013		3504		3429
	Visc @ 40°C	cSt	ASTM D445	57.0		60.3		63.5		70.4
				Sub	mitte	d By. TE	ECH	INICIAN	AC	COUNT

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.



TITAN VIRGINIA READY MIX LLC Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0225423 Received 5700 LAKEWRIGHT DR, SUITE 300 Sample No. : 18 Jul 2024 萨 : 06240619 NORFOLK, VA Lab Number Tested : 19 Jul 2024 : 20 Jul 2024 - Don Baldridge US 23502 Unique Number : 11129453 Diagnosed Test Package : CONST (Additional Tests: KF, PQ) Contact: ROBERT TAUBER Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. rtauber@titanamerica.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (571)436-2579 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Submitted By: TECHNICIAN ACCOUNT Page 2 of 2