



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 444K 1DW444KZTHF678950
Component
Rear Differential
Fluid
JOHN DEERE HY-GARD HYDRAULIC/RANSMISSION (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0197846	JR0050201	JR0031896
Sample Date		Client Info		07 Feb 2024	10 Jun 2020	20 Dec 2019
Machine Age	hrs	Client Info		4409	1954	1455
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Changed	Changed	Not Changd
Filter Changed		Client Info		None	N/A	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL

WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		42	45	15
Iron	ppm	ASTM D5185m	>1501	386	244	2
Chromium	ppm	ASTM D5185m	>11	1	2	<1
Nickel	ppm	ASTM D5185m	>10	2	2	<1
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>21	<1	<1	<1
Lead	ppm	ASTM D5185m	>51	1	<1	0
Copper	ppm	ASTM D5185m	>101	4	7	0
Tin	ppm	ASTM D5185m	>10	<1	0	0
Vanadium	ppm	ASTM D5185m		0	1	1
White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

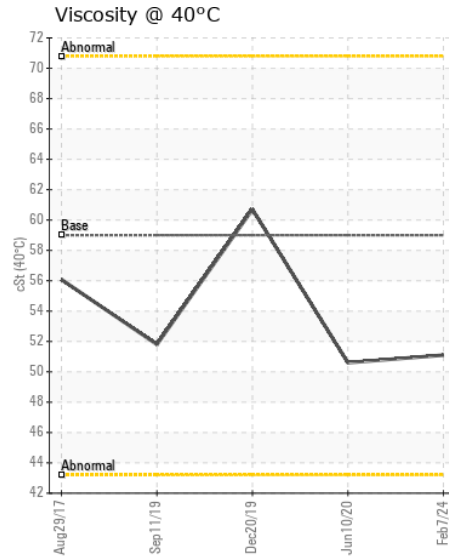
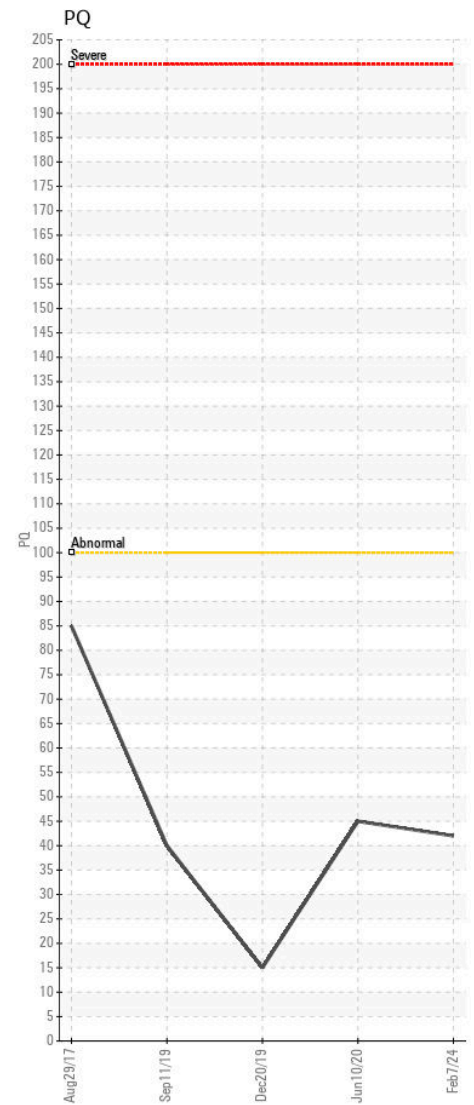
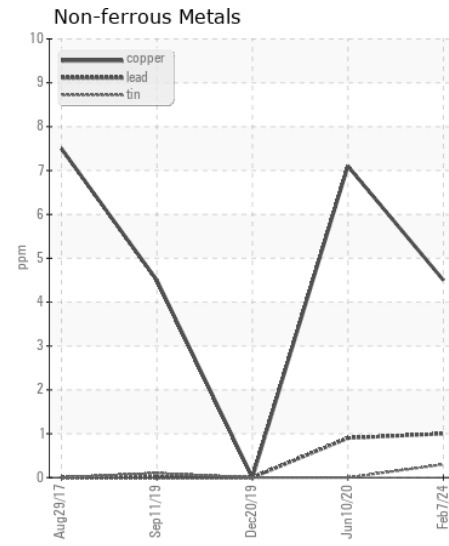
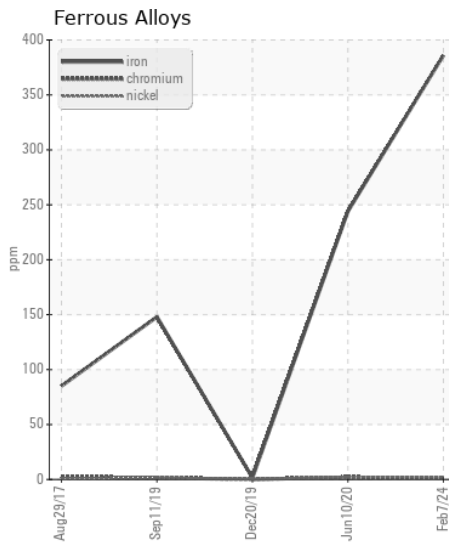
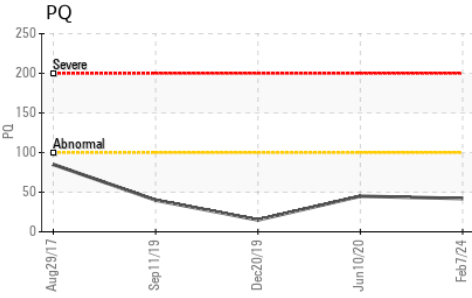
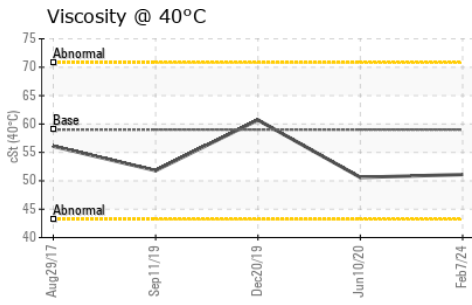
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>31	2	13	4
Potassium	ppm	ASTM D5185m	>20	<1	9	6
Water		WC Method	>0.1	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	>0.1	NEG	NEG	NEG

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m	>51	3	8	2
Boron	ppm	ASTM D5185m		7	30	1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	1
Manganese	ppm	ASTM D5185m		5	5	<1
Magnesium	ppm	ASTM D5185m		87	72	92
Calcium	ppm	ASTM D5185m		3150	3631	3225
Phosphorus	ppm	ASTM D5185m		935	1106	924
Zinc	ppm	ASTM D5185m		1128	1315	1068
Sulfur	ppm	ASTM D5185m		3168	3219	2824
Visc @ 40°C	cSt	ASTM D445	59	51.1	50.6	60.7



Certificate L2367

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

Sample No. : JR0197846

Lab Number : 06085041

Unique Number : 10872486

Test Package : CONST (Additional Tests: PQ)

Received : 09 Feb 2024

Tested : 11 Feb 2024

Diagnosed : 12 Feb 2024 - Sean Felton

JRE - GARNER

4161 AUBURN CHURCH RD

GARNER, NC

US 27529

Contact: RALEIGH SHOP

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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)