



WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Machine Id
JOHN DEERE 544K 1DW544KZKHF682097
Component
Rear Differential
Fluid
{not provided} (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0188849	JR0142163	JR0129004
Sample Date		Client Info		16 Apr 2024	13 Oct 2022	12 Jun 2022
Machine Age	hrs	Client Info		6492	4986	4542
Oil Age	hrs	Client Info		0	500	500
Filter Age	hrs	Client Info		0	500	500
Oil Changed		Client Info		Not Changed	Changed	Changed
Filter Changed		Client Info		Not Changed	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	NORMAL

WEAR

Gear wear is indicated.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		51	17	15
Iron	ppm	ASTM D5185m	>500	▲ 792	299	3
Chromium	ppm	ASTM D5185m	>10	4	1	<1
Nickel	ppm	ASTM D5185m	>10	8	1	0
Titanium	ppm	ASTM D5185m		1	<1	<1
Silver	ppm	ASTM D5185m		<1	<1	0
Aluminum	ppm	ASTM D5185m	>25	6	11	1
Lead	ppm	ASTM D5185m	>25	4	▲ 183	<1
Copper	ppm	ASTM D5185m	>100	64	47	0
Tin	ppm	ASTM D5185m	>10	5	3	<1
Vanadium	ppm	ASTM D5185m		<1	<1	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

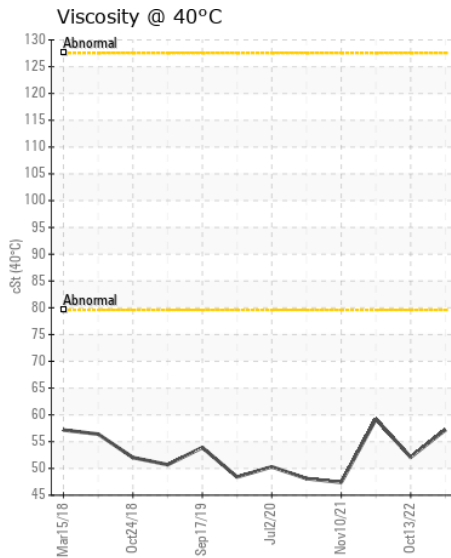
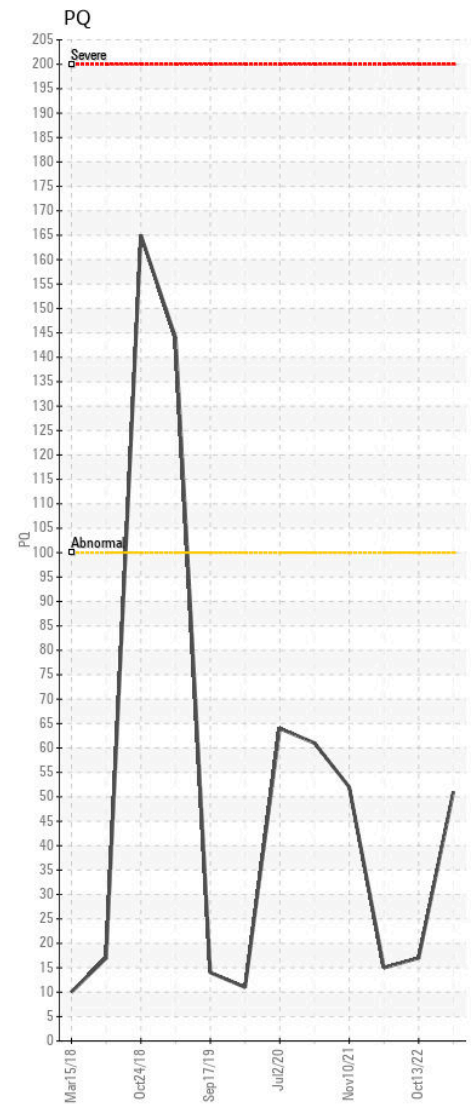
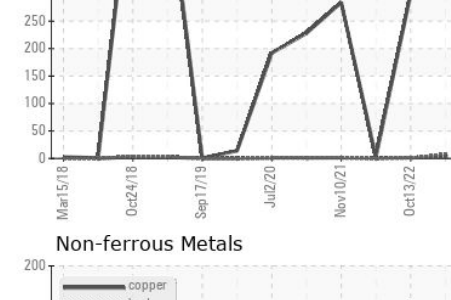
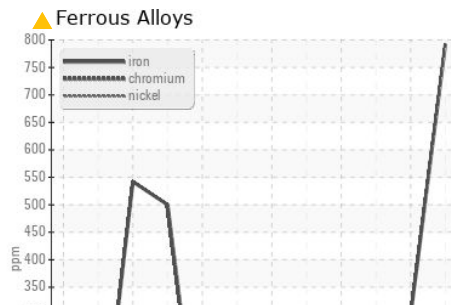
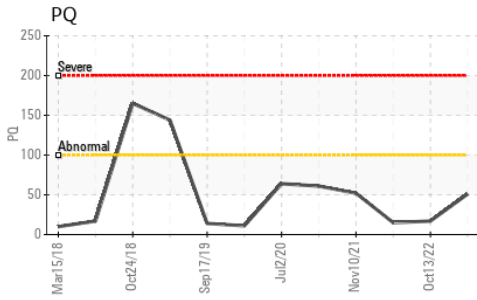
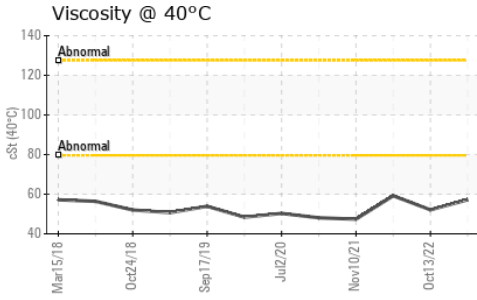
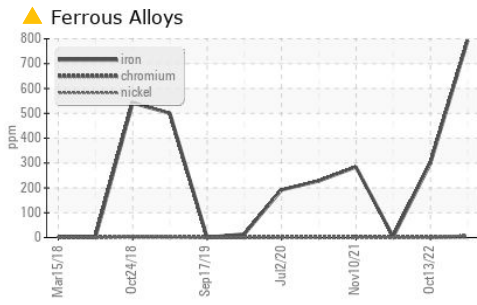
There is no indication of any contamination in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Silicon	ppm	ASTM D5185m	>75	53	11	5
Potassium	ppm	ASTM D5185m	>20	2	0	0
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

FLUID CONDITION

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

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sodium	ppm	ASTM D5185m		1	5	0
Boron	ppm	ASTM D5185m		<1	<1	4
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		2	4	<1
Manganese	ppm	ASTM D5185m		7	6	<1
Magnesium	ppm	ASTM D5185m		87	63	96
Calcium	ppm	ASTM D5185m		3192	2725	3251
Phosphorus	ppm	ASTM D5185m		1012	919	941
Zinc	ppm	ASTM D5185m		1077	996	1130
Sulfur	ppm	ASTM D5185m		3594	3805	2995
Visc @ 40°C	cSt	ASTM D445		57.2	52.1	59.2



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0188849 **Received** : 17 Apr 2024
Lab Number : 06152276 **Tested** : 18 Apr 2024
Unique Number : 10982354 **Diagnosed** : 22 Apr 2024 - Sean Felton
Test Package : CONST (Additional Tests: PQ)

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)

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