



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 544L 1DW544LZLLL705687
 Component
Front Differential
 Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0078639	JR0063929	JR0057320
Sample Date		Client Info		16 Apr 2021	17 Dec 2020	30 Sep 2020
Machine Age	hrs	Client Info		1414	1005	872
Oil Age	hrs	Client Info		1414	1005	872
Filter Age	hrs	Client Info		400	430	300
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Filter Changed		Client Info		Not Changd	Changed	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		31	16	31
Iron	ppm	ASTM D5185m	>500	190	165	150
Chromium	ppm	ASTM D5185m	>10	<1	<1	<1
Nickel	ppm	ASTM D5185m		<1	<1	0
Titanium	ppm	ASTM D5185m		<1	0	<1
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	1	0	1
Lead	ppm	ASTM D5185m	>25	122	103	93
Copper	ppm	ASTM D5185m	>100	28	25	21
Tin	ppm	ASTM D5185m	>10	0	<1	0
Vanadium	ppm	ASTM D5185m		0	0	<1
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

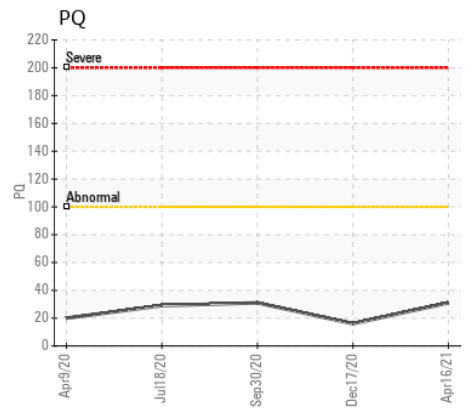
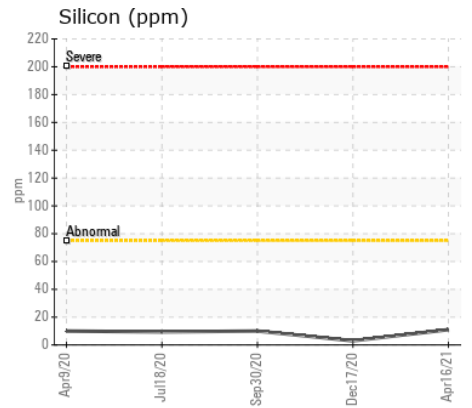
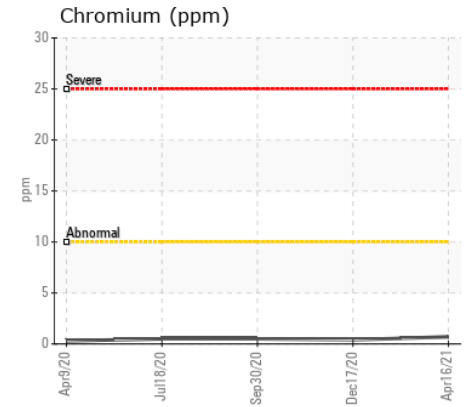
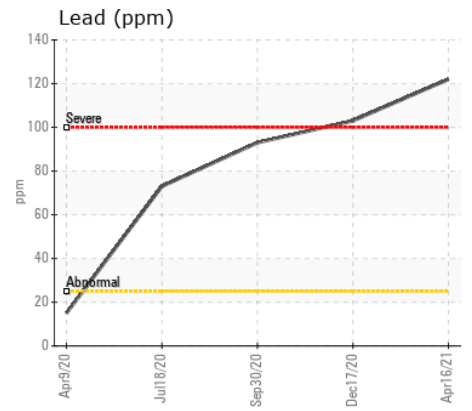
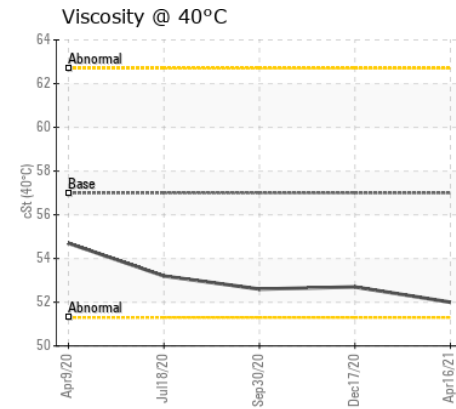
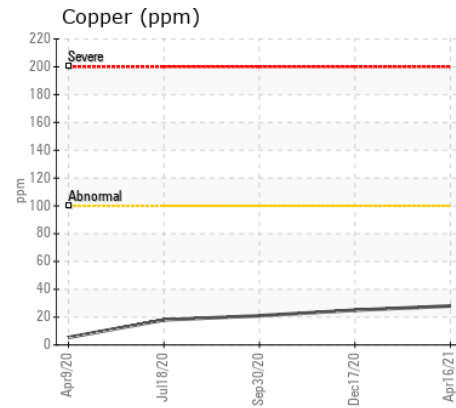
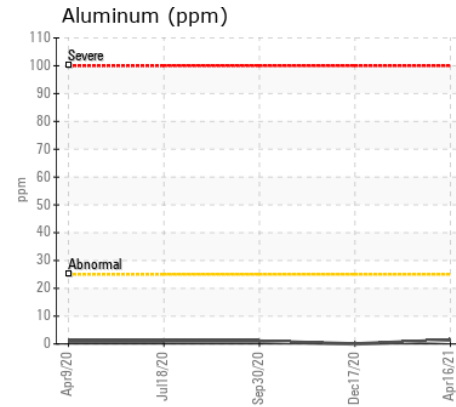
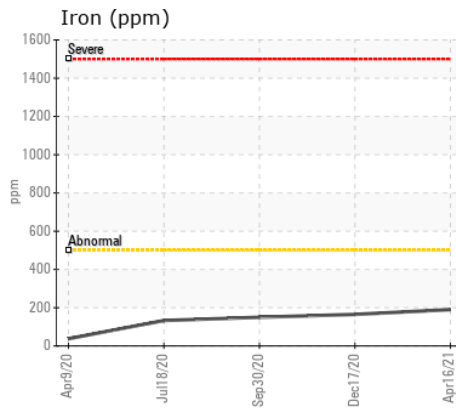
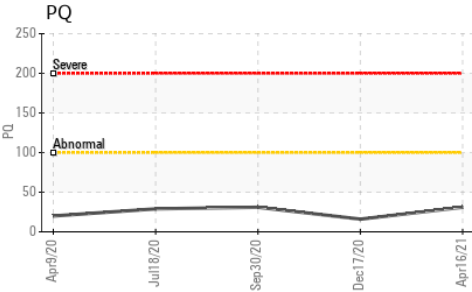
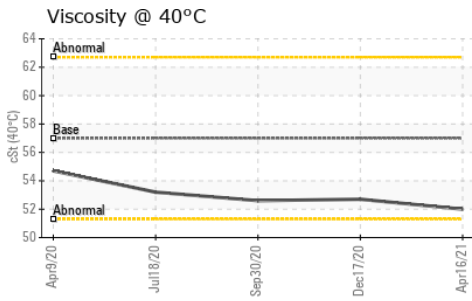
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	11	3	10
Potassium	ppm	ASTM D5185m	>20	6	2	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.

Sodium	ppm	ASTM D5185m		7	3	6
Boron	ppm	ASTM D5185m	6	5	8	6
Barium	ppm	ASTM D5185m	0	3	4	2
Molybdenum	ppm	ASTM D5185m	0	0	<1	<1
Manganese	ppm	ASTM D5185m		4	3	3
Magnesium	ppm	ASTM D5185m	145	97	95	93
Calcium	ppm	ASTM D5185m	3570	3592	3539	3505
Phosphorus	ppm	ASTM D5185m	1290	1071	999	1002
Zinc	ppm	ASTM D5185m	1640	1153	1156	1162
Sulfur	ppm	ASTM D5185m		3098	3482	2768
Visc @ 40°C	cSt	ASTM D445	57.0	52.0	52.7	52.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0078639
Lab Number : 05235364
Unique Number : 9474272
Test Package : MOBCE (Additional Tests: PQ)

Received : 21 Apr 2021
Tested : 23 Apr 2021
Diagnosed : 23 Apr 2021 - Angela Borella

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)

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