



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[W03979]
 Machine Id
JOHN DEERE 544K 1DW544KZPFE669951
 Component
Rear Differential
 Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JRMC460110	JRMC446644	---
Sample Date		Client Info		20 Jun 2018	08 Nov 2017	---
Machine Age	hrs	Client Info		2639	2070	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Changd	Changed	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Test	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		26	78	---
Iron	ppm	ASTM D5185m	>500	285	▲ 704	---
Chromium	ppm	ASTM D5185m	>10	1	3	---
Nickel	ppm	ASTM D5185m		2	6	---
Titanium	ppm	ASTM D5185m		2	4	---
Silver	ppm	ASTM D5185m		0	<1	---
Aluminum	ppm	ASTM D5185m	>25	<1	2	---
Lead	ppm	ASTM D5185m	>25	2	4	---
Copper	ppm	ASTM D5185m	>100	12	40	---
Tin	ppm	ASTM D5185m	>10	0	<1	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	LIGHT	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

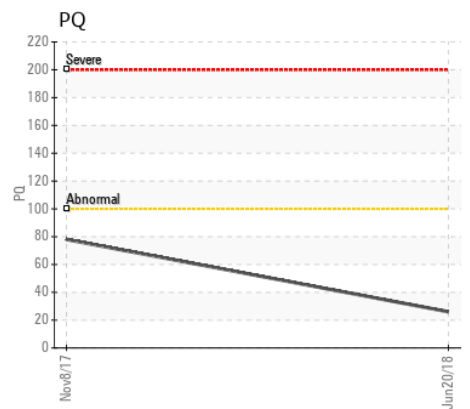
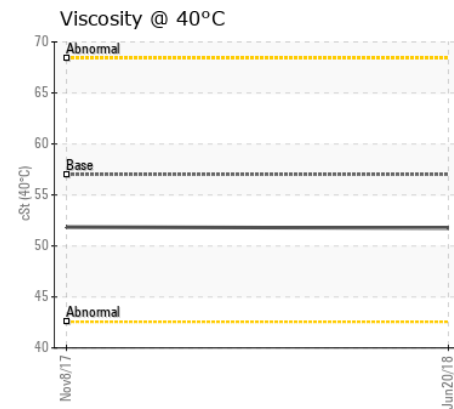
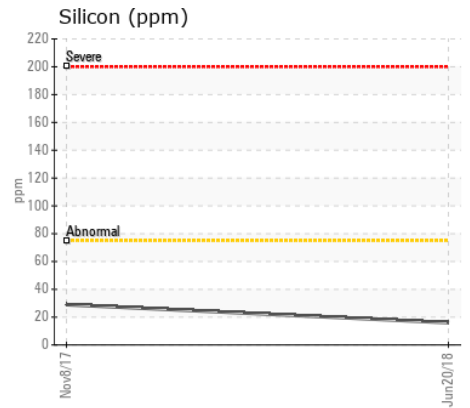
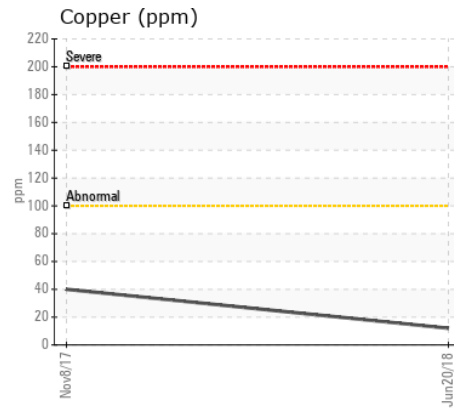
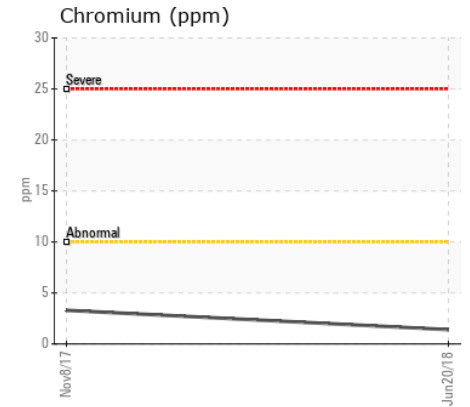
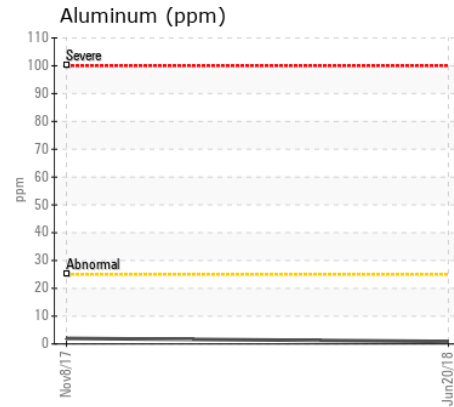
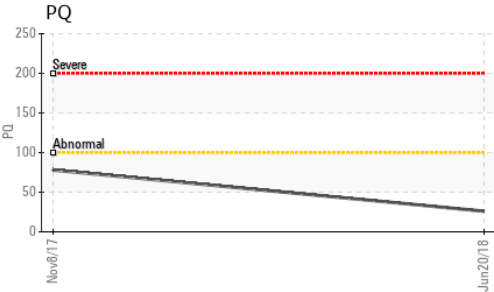
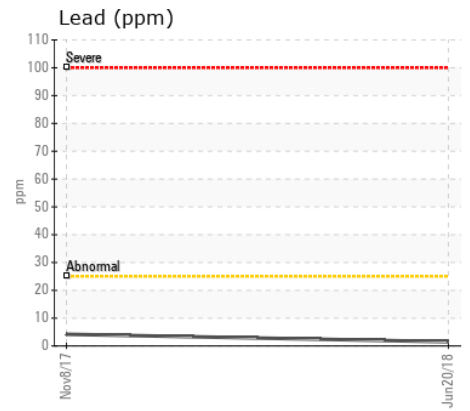
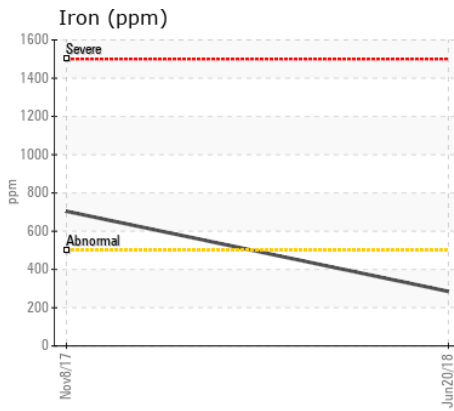
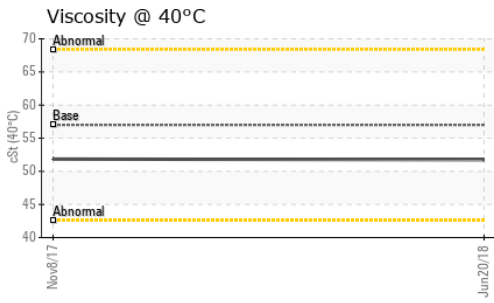
There is no indication of any contamination in the oil.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Silicon	ppm	ASTM D5185m	>75	16	29	---
Potassium	ppm	ASTM D5185m	>20	0	2	---
Water		WC Method	>.2	NEG	NEG	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>.2	NEG	0.2%	---

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		3	11	---
Boron	ppm	ASTM D5185m	6	3	4	---
Barium	ppm	ASTM D5185m	0	<1	9	---
Molybdenum	ppm	ASTM D5185m	0	0	0	---
Manganese	ppm	ASTM D5185m		4	11	---
Magnesium	ppm	ASTM D5185m	145	92	90	---
Calcium	ppm	ASTM D5185m	3570	3216	3261	---
Phosphorus	ppm	ASTM D5185m	1290	918	958	---
Zinc	ppm	ASTM D5185m	1640	1021	1030	---
Sulfur	ppm	ASTM D5185m		3216	3536	---
Visc @ 40°C	cSt	ASTM D445	57.0	51.75	51.85	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JRMC460110 **Received** : 25 Jun 2018
Lab Number : 04497549 **Diagnosed** : 26 Jun 2018
Unique Number : 8241343 **Diagnostician** : Wes Davis
Test Package : MOB 1 (Additional Tests: PQ)

CAPITAL GRADING
 2840 PLAZA PL, SUITE 200
 RALEIGH, NC
 US 27612
 Contact: SERVICE MANAGER

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)

T:
F: