



WEAR	<b>NORMAL</b>
CONTAMINATION	<b>NORMAL</b>
FLUID CONDITION	<b>NORMAL</b>



Machine Id  
**JOHN DEERE 544K 1DW544KZPFE669951**  
Component  
**Front 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		<b>JRMC460109</b>	JRMC445284	---
Sample Date		Client Info		<b>20 Jun 2018</b>	08 Nov 2017	---
Machine Age	hrs	Client Info		<b>2639</b>	2070	---
Oil Age	hrs	Client Info		<b>0</b>	0	---
Filter Age	hrs	Client Info		<b>0</b>	0	---
Oil Changed		Client Info		<b>Not Changed</b>	Changed	---
Filter Changed		Client Info		<b>N/A</b>	N/A	---
Sample Status				<b>NORMAL</b>	ABNORMAL	---

### WEAR

All component wear rates are normal.

PQ	UOM	Method	Limit/Abn	Current	History1	History2
PQ		ASTM D8184		<b>32</b>	78	---
Iron	ppm	ASTM D5185m	>500	<b>391</b>	▲ 765	---
Chromium	ppm	ASTM D5185m	>10	<b>2</b>	4	---
Nickel	ppm	ASTM D5185m		<b>2</b>	4	---
Titanium	ppm	ASTM D5185m		<b>1</b>	1	---
Silver	ppm	ASTM D5185m		<b>0</b>	0	---
Aluminum	ppm	ASTM D5185m	>25	<b>2</b>	2	---
Lead	ppm	ASTM D5185m	>25	<b>2</b>	11	---
Copper	ppm	ASTM D5185m	>100	<b>11</b>	30	---
Tin	ppm	ASTM D5185m	>10	<b>0</b>	0	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	0	---
White Metal	scalar	*Visual	NONE	<b>LIGHT</b>	MODER	---
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	---

### CONTAMINATION

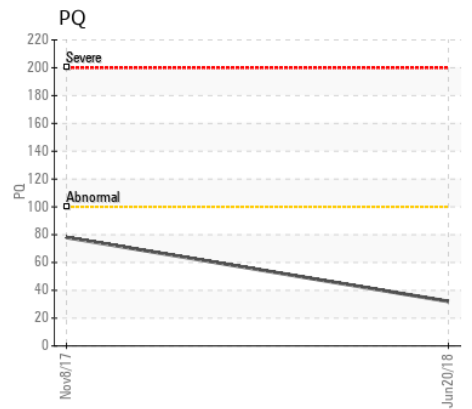
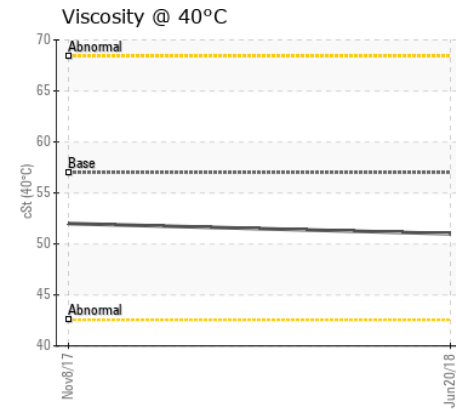
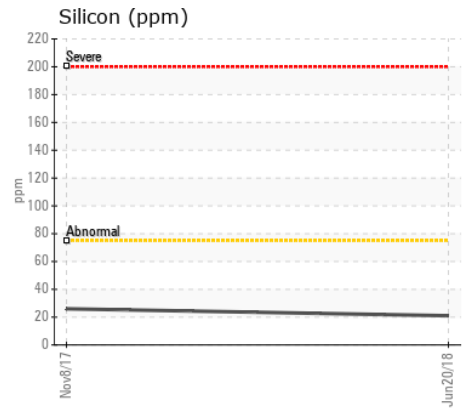
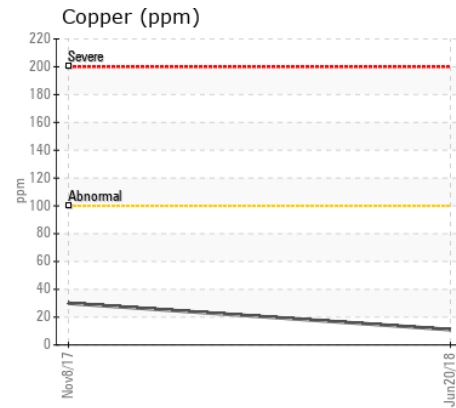
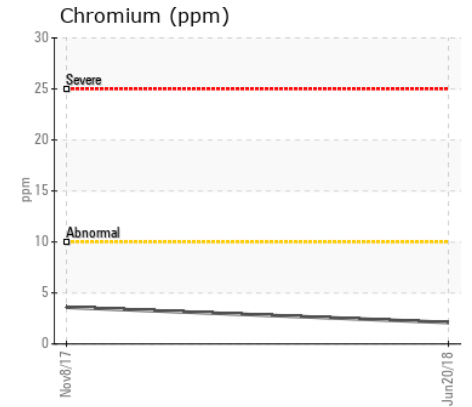
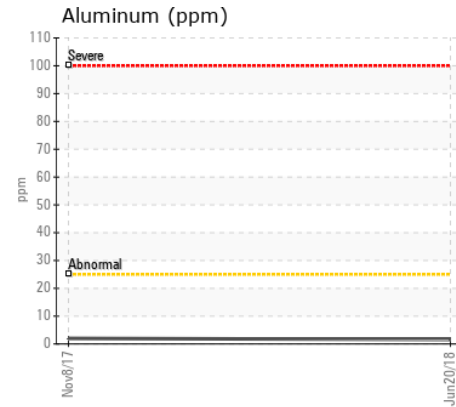
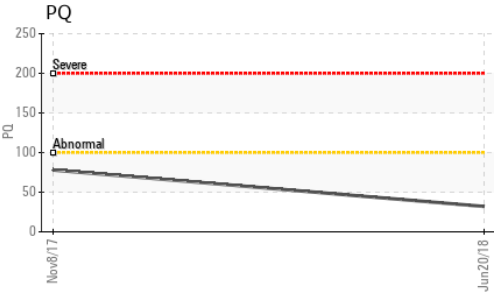
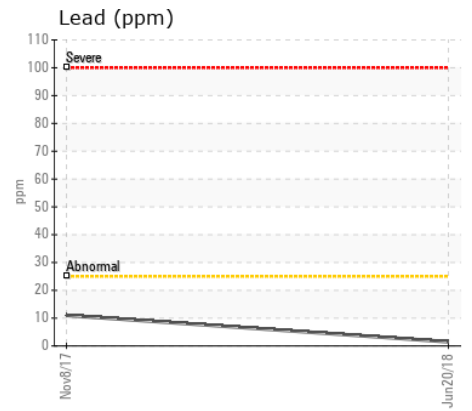
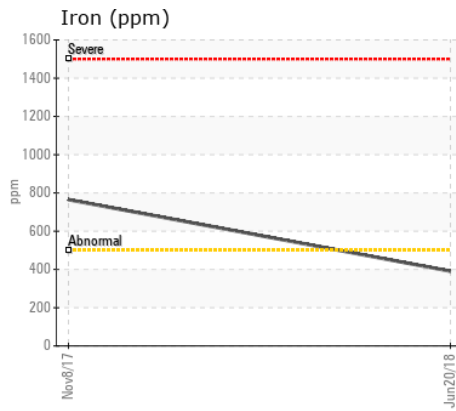
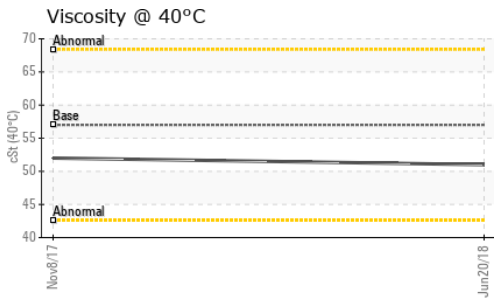
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>75	<b>21</b>	26	---
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	---
Water		WC Method	>.2	<b>NEG</b>	NEG	---
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Debris	scalar	*Visual	NONE	<b>LIGHT</b>	NONE	---
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	---
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	---
Emulsified Water	scalar	*Visual	>.2	<b>NEG</b>	0.2%	---

### FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<b>4</b>	11	---
Boron	ppm	ASTM D5185m	6	<b>2</b>	4	---
Barium	ppm	ASTM D5185m	0	<b>0</b>	8	---
Molybdenum	ppm	ASTM D5185m	0	<b>0</b>	4	---
Manganese	ppm	ASTM D5185m		<b>7</b>	12	---
Magnesium	ppm	ASTM D5185m	145	<b>94</b>	97	---
Calcium	ppm	ASTM D5185m	3570	<b>3290</b>	3445	---
Phosphorus	ppm	ASTM D5185m	1290	<b>909</b>	978	---
Zinc	ppm	ASTM D5185m	1640	<b>993</b>	905	---
Sulfur	ppm	ASTM D5185m		<b>2986</b>	3912	---
Visc @ 40°C	cSt	ASTM D445	57.0	<b>51.00</b>	52.00	---



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : JRMC460109 **Received** : 25 Jun 2018  
**Lab Number** : 04497552 **Diagnosed** : 26 Jun 2018  
**Unique Number** : 8241346 **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: