



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[W03979]
 Machine Id
JOHN DEERE 544K 1DW544KZPFE669951
 Component
Hydraulic System
 Fluid
JOHN DEERE HYDRAU (--- QTS)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JRMC460106	JRMC446665	---
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	Not Changd	---
Filter Changed		Client Info		N/A	N/A	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

PQ		ASTM D8184	>50	19	16	---
Iron	ppm	ASTM D5185m	>71	5	5	---
Chromium	ppm	ASTM D5185m	>11	1	<1	---
Nickel	ppm	ASTM D5185m	>6	<1	<1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m		<1	<1	---
Aluminum	ppm	ASTM D5185m	>11	2	2	---
Lead	ppm	ASTM D5185m	>13	0	0	---
Copper	ppm	ASTM D5185m	>21	2	2	---
Tin	ppm	ASTM D5185m	>5	<1	0	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

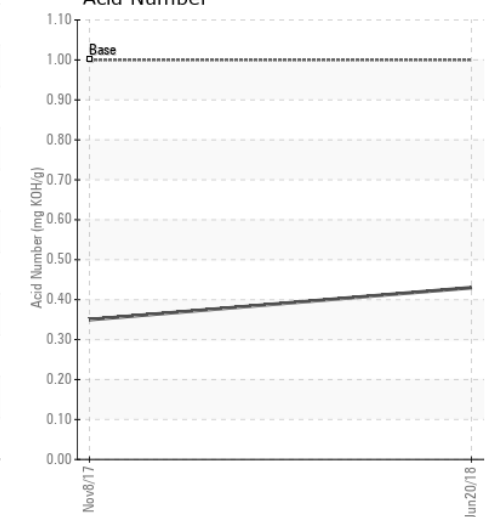
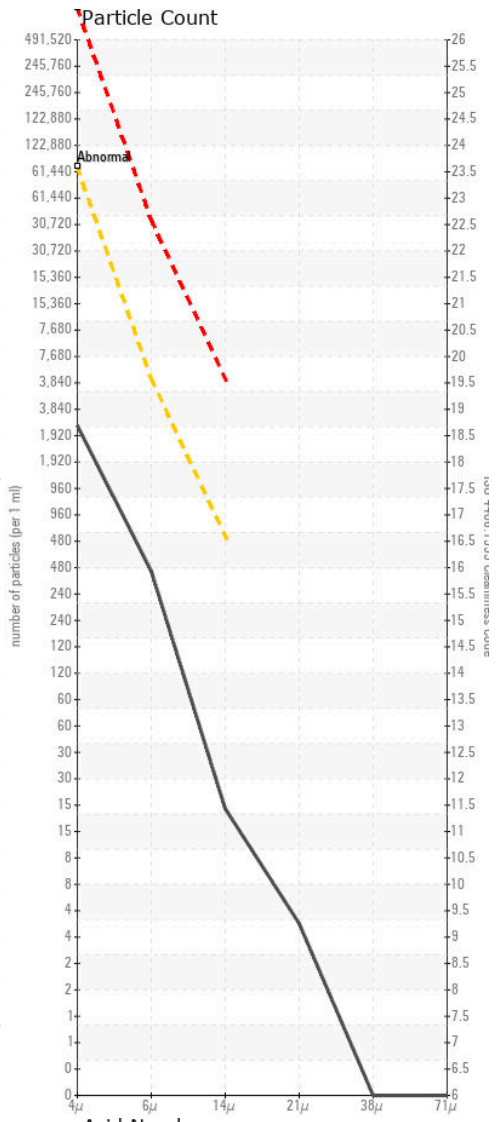
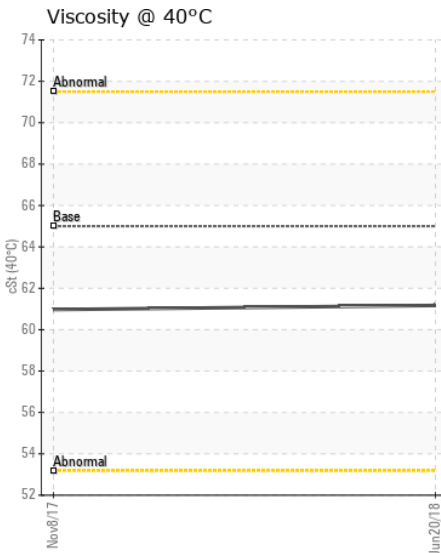
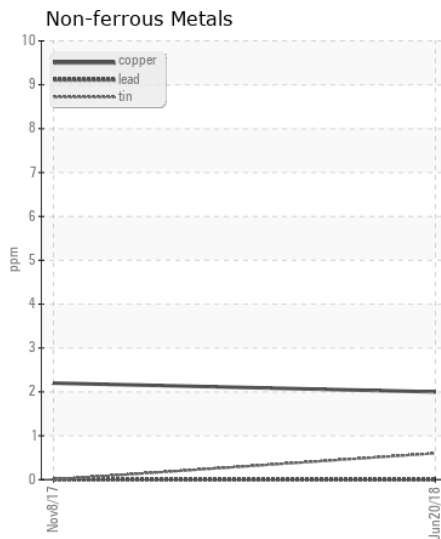
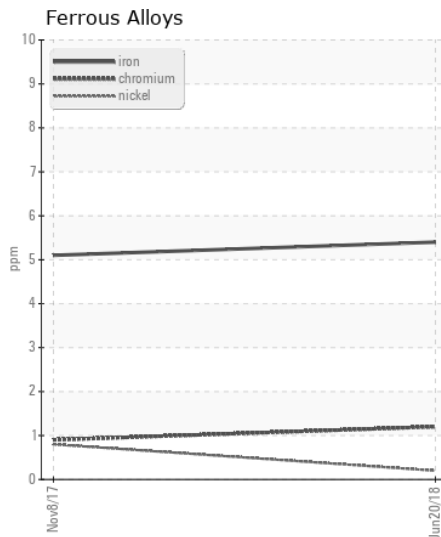
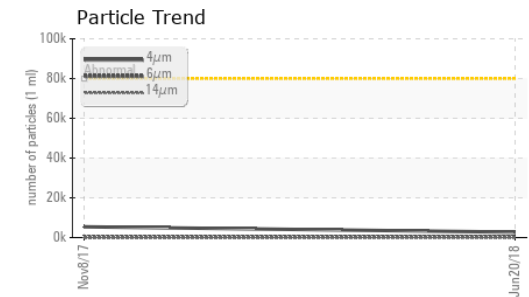
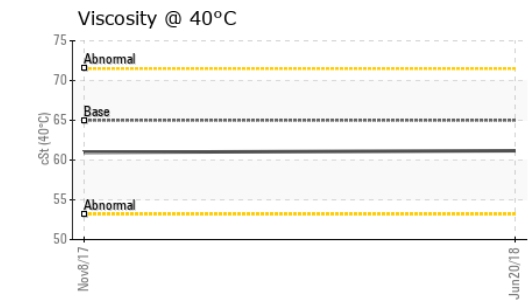
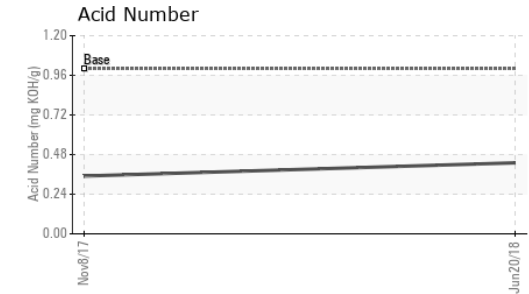
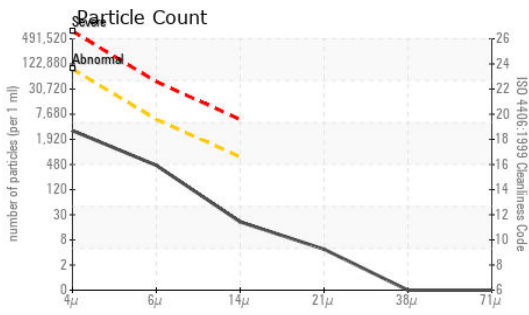
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

Silicon	ppm	ASTM D5185m	>24	3	3	---
Potassium	ppm	ASTM D5185m	>20	0	7	---
Water		WC Method	>0.075	NEG	NEG	---
Particles >4µm		ASTM D7647	>80000	2712	5425	---
Particles >6µm		ASTM D7647	>5000	403	209	---
Particles >14µm		ASTM D7647	>640	18	30	---
Particles >21µm		ASTM D7647	>160	4	12	---
Particles >38µm		ASTM D7647	>40	0	4	---
Particles >71µm		ASTM D7647	>10	0	2	---
Oil Cleanliness		ISO 4406 (c)	>23/19/16	19/16/11	20/15/12	---
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	>0.075	NEG	NEG	---

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>21	5	3	---
Boron	ppm	ASTM D5185m		<1	<1	---
Barium	ppm	ASTM D5185m		0	0	---
Molybdenum	ppm	ASTM D5185m		0	2	---
Manganese	ppm	ASTM D5185m		0	<1	---
Magnesium	ppm	ASTM D5185m		0	0	---
Calcium	ppm	ASTM D5185m	87	85	92	---
Phosphorus	ppm	ASTM D5185m	727	602	659	---
Zinc	ppm	ASTM D5185m	900	751	805	---
Sulfur	ppm	ASTM D5185m	1500	1376	1623	---
Acid Number (AN)	mg KOH/g	ASTM D8045	1.0	0.430	0.350	---
Visc @ 40°C	cSt	ASTM D445	65	61.17	60.97	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JRMC460106 **Received** : 25 Jun 2018
Lab Number : 04497501 **Diagnosed** : 26 Jun 2018
Unique Number : 8241295 **Diagnostician** : Wes Davis
Test Package : MOB 2 (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: