



WEAR	ABNORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL



Area
[11288]
 Machine Id
JOHN DEERE 544K 3601195 - PARK (S/N 669951)
 Component
Brake
 Fluid
JOHN DEERE HY-GARD HYD/TRANS (--- 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		JR0016429	JRMC469432	---
Sample Date		Client Info		15 Jul 2019	07 Nov 2018	---
Machine Age	hrs	Client Info		3591	3066	---
Oil Age	hrs	Client Info		0	0	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Not Changed	Changed	---
Filter Changed		Client Info		Not Changed	N/A	---
Sample Status				ABNORMAL	NORMAL	---

WEAR

Gear wear is indicated. All other component wear rates are normal.

PQ		ASTM D8184		56	70	---
Iron	ppm	ASTM D5185m	>350	▲ 580	95	---
Chromium	ppm	ASTM D5185m	>5	3	<1	---
Nickel	ppm	ASTM D5185m	>5	3	0	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>8	1	2	---
Lead	ppm	ASTM D5185m	>10	1	<1	---
Copper	ppm	ASTM D5185m	>150	54	<1	---
Tin	ppm	ASTM D5185m	>5	0	0	---
Vanadium	ppm	ASTM D5185m		0	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.

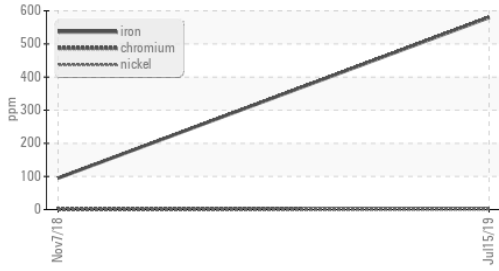
Silicon	ppm	ASTM D5185m	>400	20	142	---
Potassium	ppm	ASTM D5185m	>20	3	4	---
Water		WC Method	>0.2	NEG	NEG	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	---

FLUID CONDITION

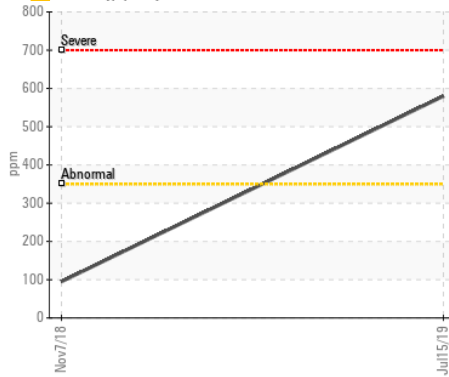
The condition of the oil is acceptable for the time in service.

Sodium	ppm	ASTM D5185m		2	30	---
Boron	ppm	ASTM D5185m	6	2	3	---
Barium	ppm	ASTM D5185m	0	0	0	---
Molybdenum	ppm	ASTM D5185m	0	0	1	---
Manganese	ppm	ASTM D5185m		6	1	---
Magnesium	ppm	ASTM D5185m	145	101	91	---
Calcium	ppm	ASTM D5185m	3570	3774	3597	---
Phosphorus	ppm	ASTM D5185m	1290	930	996	---
Zinc	ppm	ASTM D5185m	1640	1197	1278	---
Sulfur	ppm	ASTM D5185m		3951	3110	---
Visc @ 40°C	cSt	ASTM D445	57.0	50.2	51.19	---

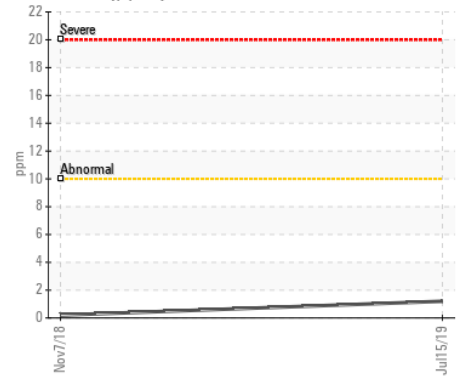
▲ Ferrous Alloys



▲ Iron (ppm)



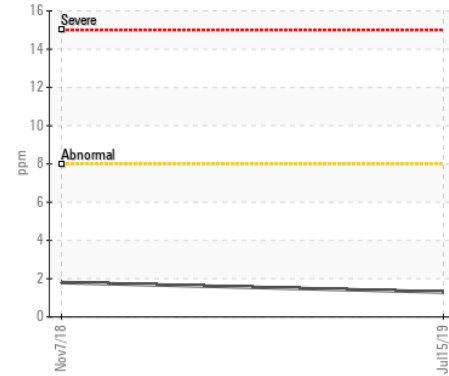
Lead (ppm)



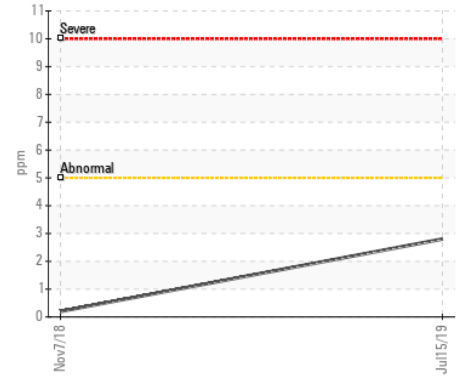
Viscosity @ 40°C



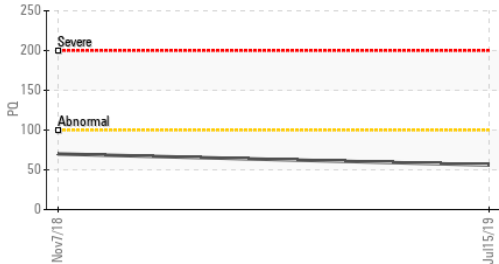
Aluminum (ppm)



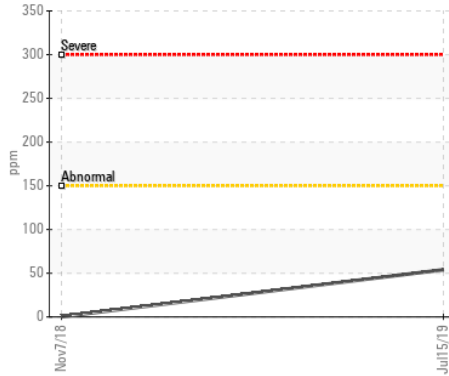
Chromium (ppm)



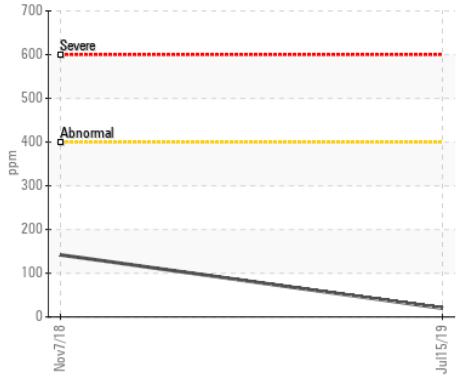
PQ



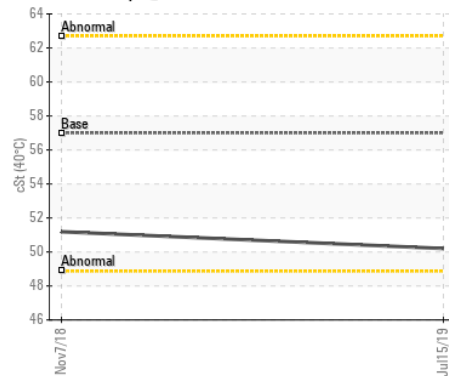
Copper (ppm)



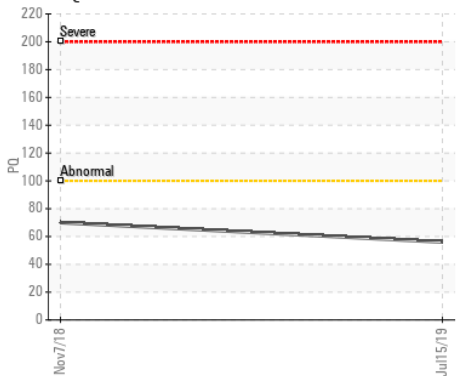
Silicon (ppm)



Viscosity @ 40°C



PQ



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0016429 **Received** : 17 Jul 2019
Lab Number : 04756798 **Diagnosed** : 18 Jul 2019
Unique Number : 8669524 **Diagnostician** : Don Baldrige
Test Package : MOBCE (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: