



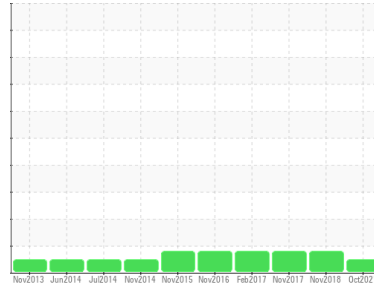
OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Machine Id
JOHN DEERE 844K ML-91 (S/N DW844KX641154)
 Component
Transmission (Manual)
 Fluid
CASTROL UNIVERSAL TRACTOR FLUID (--- QTS)



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the fluid.

Fluid Condition

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

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		MT0002775	MTMCF60025	MTMCF37319
Sample Date	Client Info		29 Oct 2021	08 Nov 2018	14 Nov 2017
Machine Age	hrs	Client Info	8970	6635	5731
Oil Age	hrs	Client Info	0	0	0
Oil Changed	Client Info		Not Changed	Not Changd	Not Changd
Sample Status			NORMAL	ABNORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2	
PQ	ASTM D8184	>95	27	26	22	
Iron	ppm	ASTM D5185m	>200	113	▲ 84	▲ 65
Chromium	ppm	ASTM D5185m	>5	1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	<1	<1
Titanium	ppm	ASTM D5185m		<1	<1	<1
Silver	ppm	ASTM D5185m	>7	<1	<1	<1
Aluminum	ppm	ASTM D5185m	>25	0	2	1
Lead	ppm	ASTM D5185m	>45	<1	1	0
Copper	ppm	ASTM D5185m	>225	9	15	13
Tin	ppm	ASTM D5185m	>10	<1	0	<1
Antimony	ppm	ASTM D5185m		0	0	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		45	13	12
Barium	ppm	ASTM D5185m		0	<1	<1
Molybdenum	ppm	ASTM D5185m		6	5	3
Manganese	ppm	ASTM D5185m		1	1	<1
Magnesium	ppm	ASTM D5185m		50	82	78
Calcium	ppm	ASTM D5185m		3109	3394	3438
Phosphorus	ppm	ASTM D5185m		1087	1064	1135
Zinc	ppm	ASTM D5185m		1239	1297	1290
Sulfur	ppm	ASTM D5185m		4719	3752	4080

CONTAMINANTS

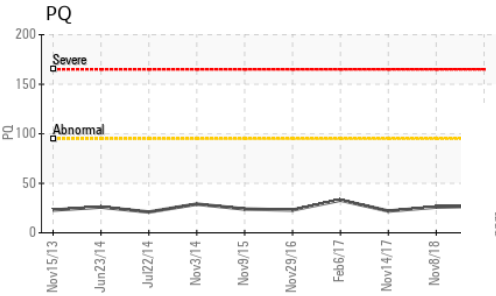
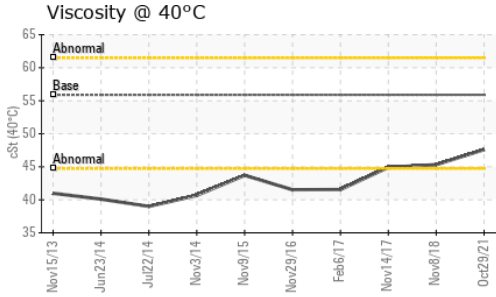
	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>125	6	11	12
Sodium	ppm	ASTM D5185m		0	5	5
Potassium	ppm	ASTM D5185m	>20	<1	0	10

VISUAL

	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
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	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG



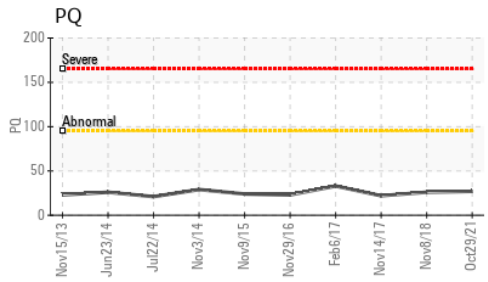
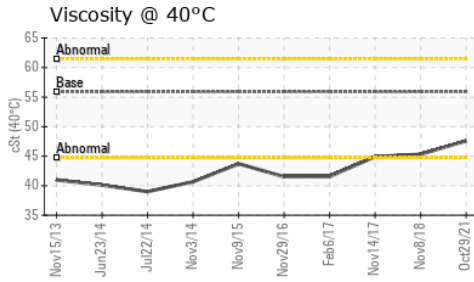
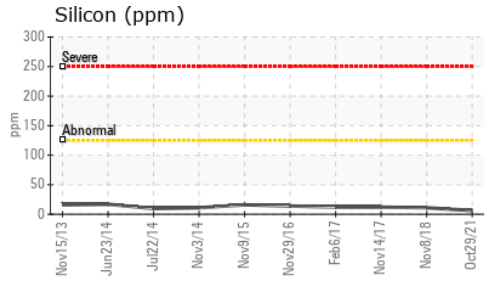
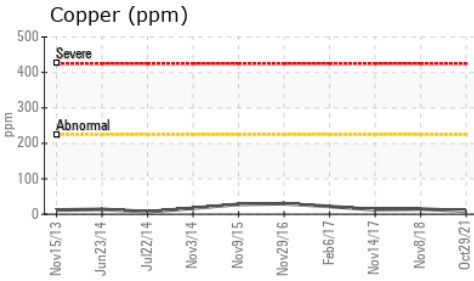
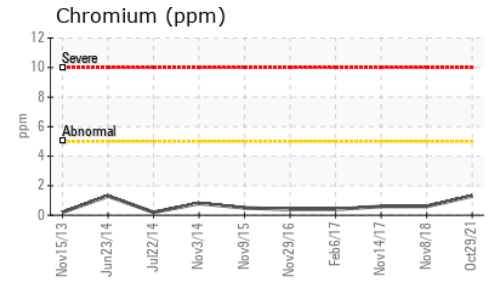
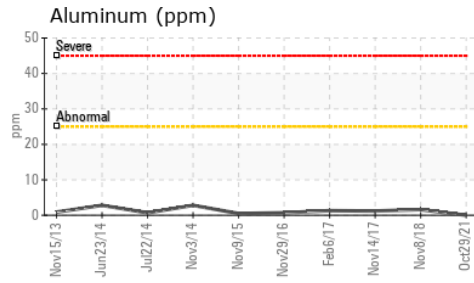
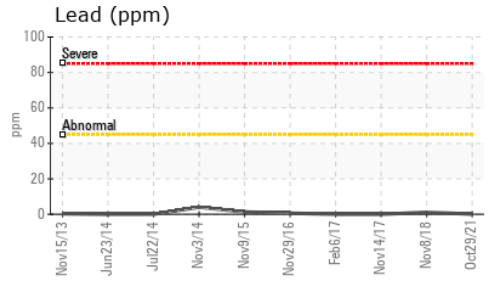
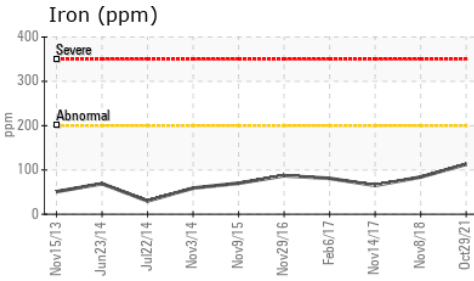
OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	55.89	47.6	45.32	44.92

SAMPLE IMAGES		method	limit/base	current	history1	history2
Color				no image	no image	no image
Bottom				no image	no image	no image

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MT0002775 **Received** : 03 Nov 2021
Lab Number : **05391148** **Diagnosed** : 05 Nov 2021
Unique Number : 9725281 **Diagnostician** : Don Baldrige
Test Package : MOBCE (Additional Tests: PQ)

SHELLY AND SANDS INC.
 3570 SOUTH RIVER RD
 ZANESVILLE, OH
 US 43701

Contact: PATRICK STEMME
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 T: (740)453-6260
 F: (740)453-6980

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)