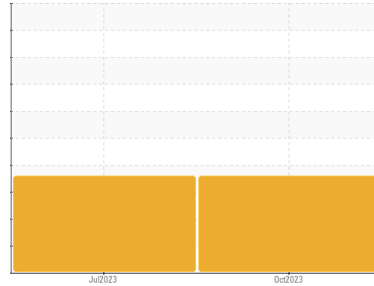


OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Machine Id
JOHN DEERE 624K 640
Component
Diesel Engine
Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

Wear

All component wear rates are normal.

Contamination

There is a high amount of fuel present in the oil.

Fluid Condition

Fuel is present in the oil and is lowering the viscosity. The BN level is low. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		PCA0096380	PCA0081000	---
Sample Date	Client Info		19 Oct 2023	19 Jul 2023	---
Machine Age	hrs	Client Info	16784	16356	---
Oil Age	hrs	Client Info	429	900	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			SEVERE	SEVERE	---

CONTAMINATION

	method	limit/base	current	history1	history2
Water	WC Method	>0.21	NEG	NEG	---
Glycol	WC Method		NEG	NEG	---

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >51	5	23	---
Chromium	ppm	ASTM D5185m >11	0	<1	---
Nickel	ppm	ASTM D5185m >5	<1	0	---
Titanium	ppm	ASTM D5185m	0	0	---
Silver	ppm	ASTM D5185m >3	0	0	---
Aluminum	ppm	ASTM D5185m >31	1	2	---
Lead	ppm	ASTM D5185m >26	<1	3	---
Copper	ppm	ASTM D5185m >26	<1	2	---
Tin	ppm	ASTM D5185m >4	<1	<1	---
Vanadium	ppm	ASTM D5185m	0	<1	---
Cadmium	ppm	ASTM D5185m	0	0	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 250	2	0	---
Barium	ppm	ASTM D5185m 10	0	0	---
Molybdenum	ppm	ASTM D5185m 100	44	47	---
Manganese	ppm	ASTM D5185m	<1	<1	---
Magnesium	ppm	ASTM D5185m 450	745	785	---
Calcium	ppm	ASTM D5185m 3000	871	895	---
Phosphorus	ppm	ASTM D5185m 1150	870	806	---
Zinc	ppm	ASTM D5185m 1350	986	1032	---
Sulfur	ppm	ASTM D5185m 4250	2575	2597	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >22	5	10	---
Sodium	ppm	ASTM D5185m >158	3	8	---
Potassium	ppm	ASTM D5185m >20	2	1	---
Fuel	%	ASTM D3524 >2.1	14.8	19.0	---

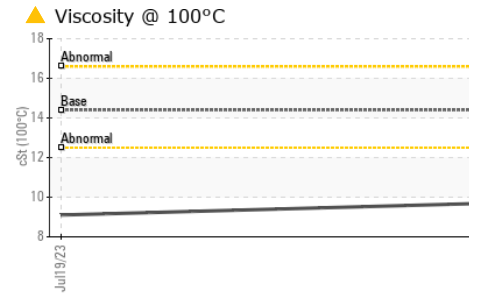
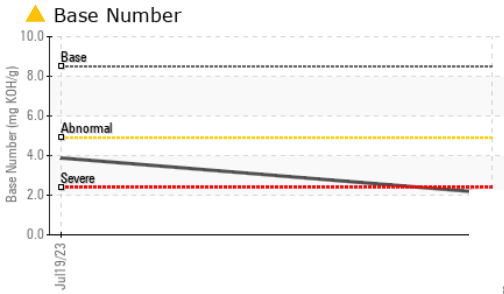
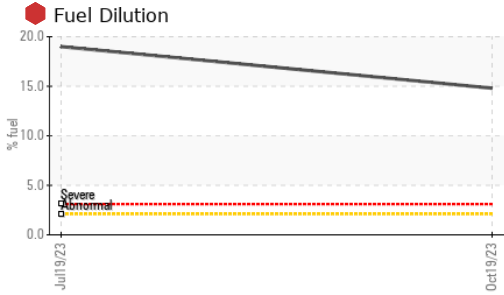
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	0.1	0.2	---
Nitration	Abs/cm	*ASTM D7624 >20	9.2	13.5	---
Sulfation	Abs/.1mm	*ASTM D7415 >30	28.7	41.3	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	37.1	60.7	---
Base Number (BN)	mg KOH/g	ASTM D2896 8.5	2.1	3.88	---

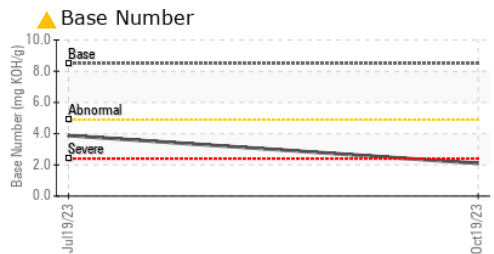
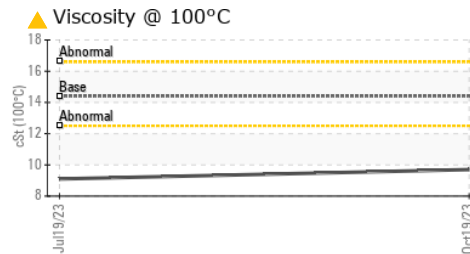
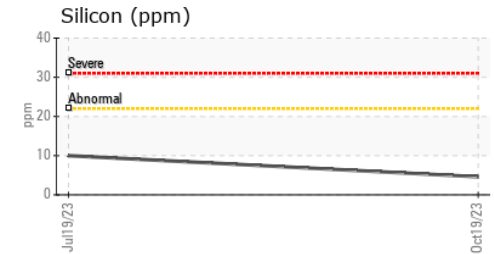
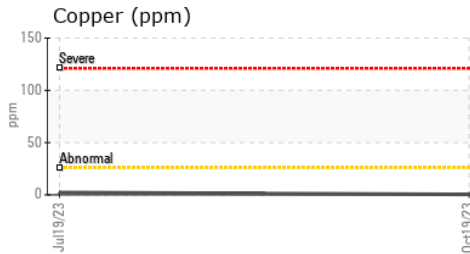
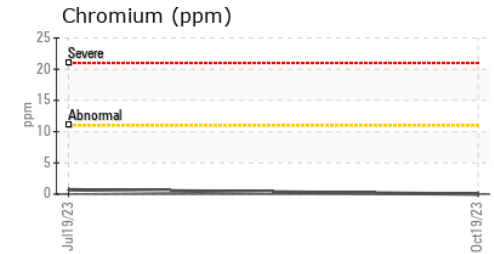
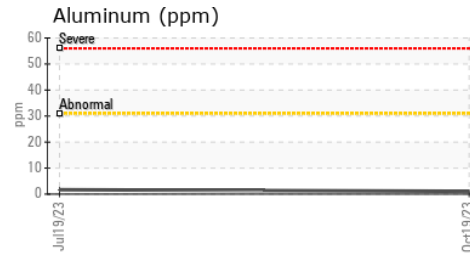
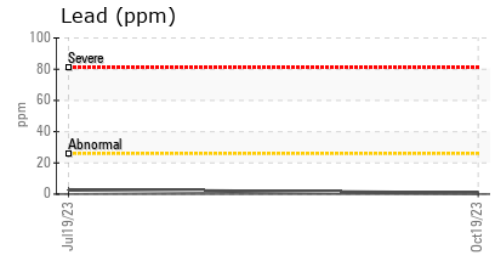
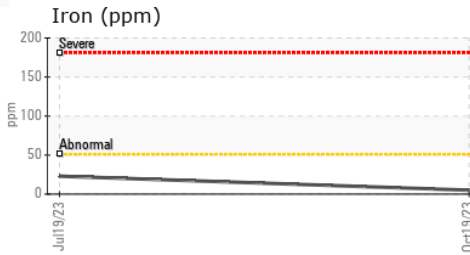
OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.21	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	14.4	▲ 9.7	▲ 9.1

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0096380 **Received** : 24 Nov 2023
Lab Number : 06017136 **Diagnosed** : 28 Nov 2023
Unique Number : 10756280 **Diagnostician** : Sean Felton
Test Package : MOB 1 (Additional Tests: PercentFuel, TBN)

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)

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