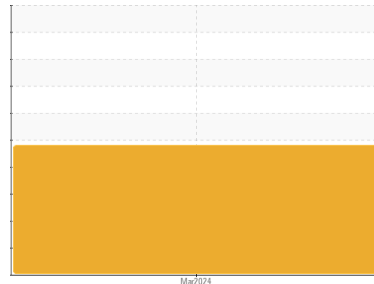




# PROBLEM SUMMARY

Sample Rating Trend

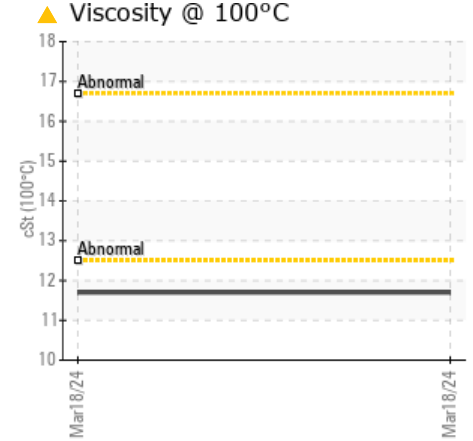
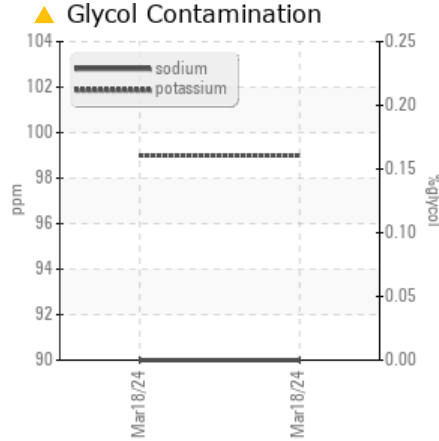
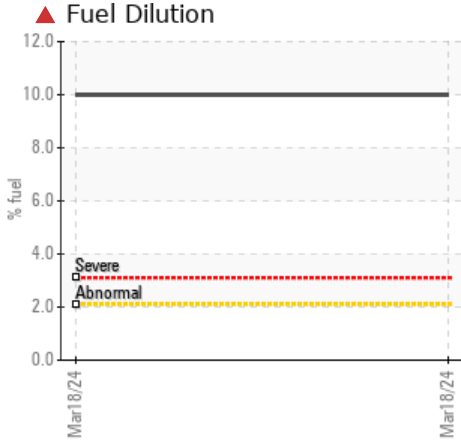


FUEL



Area  
**MIKE GOWER**  
 Machine Id  
**JOHN DEERE 2040 240881**  
 Component  
**Diesel Engine**  
 Fluid  
 {not provided} (--- QTS)

## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

We advise that you check for the source of the coolant leak. Check for low coolant level. We advise that you check the fuel injection system. We recommend an early resample to monitor this condition.

## PROBLEMATIC TEST RESULTS

Sample Status				<b>SEVERE</b>	---	---
Sodium	ppm	ASTM D5185m	>31	<b>▲ 90</b>	---	---
Potassium	ppm	ASTM D5185m	>20	<b>▲ 99</b>	---	---
Fuel	%	ASTM D3524	>2.1	<b>▲ 10.0</b>	---	---
Visc @ 100°C	cSt	ASTM D445		<b>▲ 11.7</b>	---	---

Customer Id: QUASMI  
 Sample No.: WC06136024  
 Lab Number: 06136024  
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Jonathan Hester +1 919-379-4092 x4092  
[jhester@wearcheckusa.com](mailto:jhester@wearcheckusa.com)

To change component or sample information:  
 Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

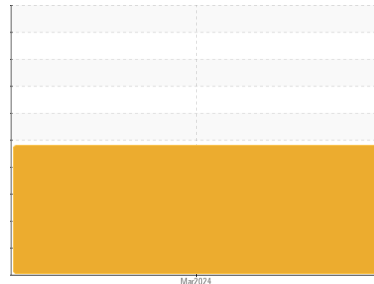
Action	Status	Date	Done By	Description
Resample	---	---	?	We recommend an early resample to monitor this condition.
Information Required	---	---	?	Please specify the brand, type, and viscosity of the oil on your next sample.
Check Fuel/injector System	---	---	?	We advise that you check the fuel injection system.
Check Glycol Access	---	---	?	We advise that you check for the source of the coolant leak.

## HISTORICAL DIAGNOSIS



# OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Area

**MIKE GOWER**

Machine Id

**JOHN DEERE 2040 240881**

Component

**Diesel Engine**

Fluid

{not provided} (--- QTS)

## DIAGNOSIS

### ▲ Recommendation

We advise that you check for the source of the coolant leak. Check for low coolant level. We advise that you check the fuel injection system. We recommend an early resample to monitor this condition.

### Wear

All component wear rates are normal.

### ▲ Contamination

Sodium and/or potassium levels are high. There is a high amount of fuel present in the oil.

### ▲ Fluid Condition

Fuel is present in the oil and is lowering the viscosity.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC06136024</b>	---	---
Sample Date	Client Info		<b>18 Mar 2024</b>	---	---
Machine Age	hrs	Client Info	<b>19</b>	---	---
Oil Age	hrs	Client Info	<b>0</b>	---	---
Oil Changed	Client Info		<b>N/A</b>	---	---
Sample Status			<b>SEVERE</b>	---	---

## CONTAMINATION

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

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>51	<b>16</b>	---
Chromium	ppm	ASTM D5185m	>11	<b>&lt;1</b>	---
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	---
Titanium	ppm	ASTM D5185m		<b>0</b>	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	---
Aluminum	ppm	ASTM D5185m	>31	<b>&lt;1</b>	---
Lead	ppm	ASTM D5185m	>26	<b>6</b>	---
Copper	ppm	ASTM D5185m	>26	<b>4</b>	---
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	---
Vanadium	ppm	ASTM D5185m		<b>0</b>	---
Cadmium	ppm	ASTM D5185m		<b>2</b>	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>107</b>	---
Barium	ppm	ASTM D5185m		<b>0</b>	---
Molybdenum	ppm	ASTM D5185m		<b>5</b>	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	---
Magnesium	ppm	ASTM D5185m		<b>22</b>	---
Calcium	ppm	ASTM D5185m		<b>1764</b>	---
Phosphorus	ppm	ASTM D5185m		<b>903</b>	---
Zinc	ppm	ASTM D5185m		<b>1021</b>	---
Sulfur	ppm	ASTM D5185m		<b>3501</b>	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>22	<b>5</b>	---
Sodium	ppm	ASTM D5185m	>31	<b>▲ 90</b>	---
Potassium	ppm	ASTM D5185m	>20	<b>▲ 99</b>	---
Fuel	%	ASTM D3524	>2.1	<b>▲ 10.0</b>	---
Glycol	%	*ASTM D2982		<b>NEG</b>	---

## INFRA-RED

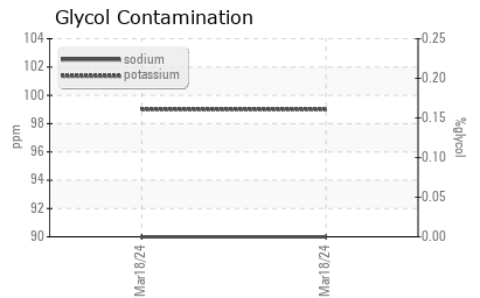
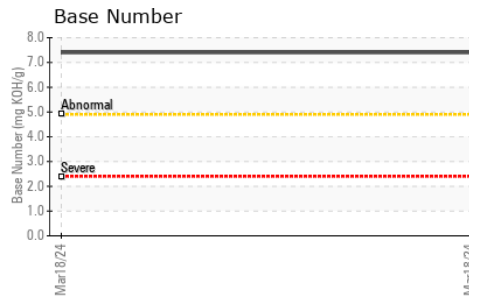
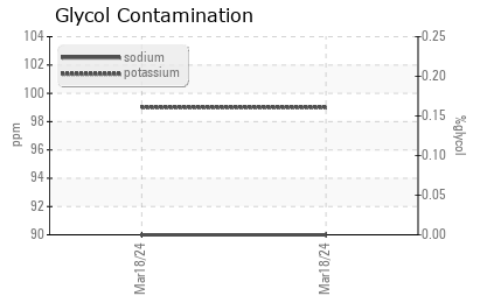
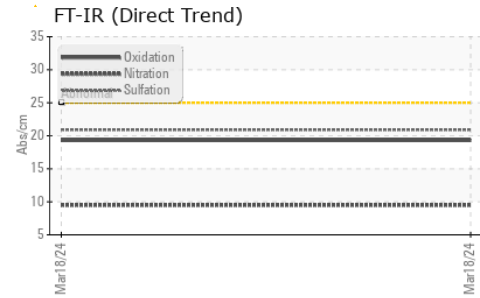
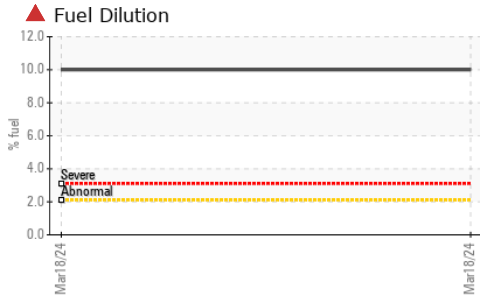
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>0.1</b>	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.5</b>	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>20.9</b>	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>19.3</b>	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>7.4</b>	---



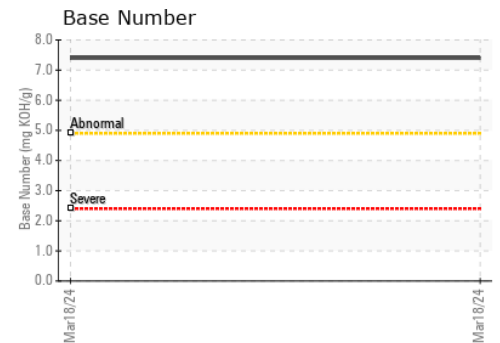
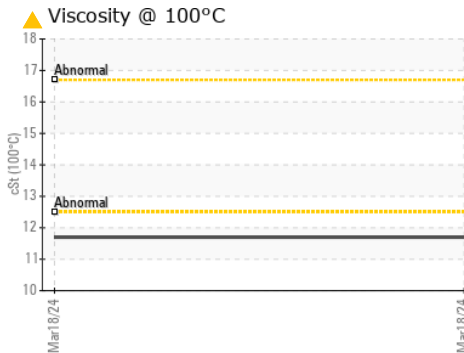
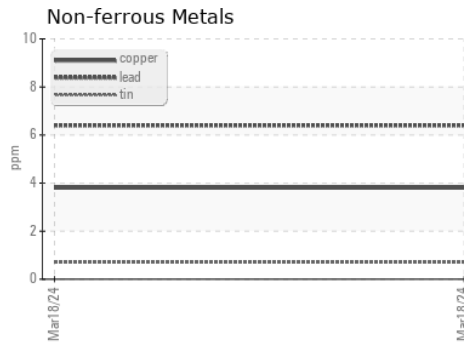
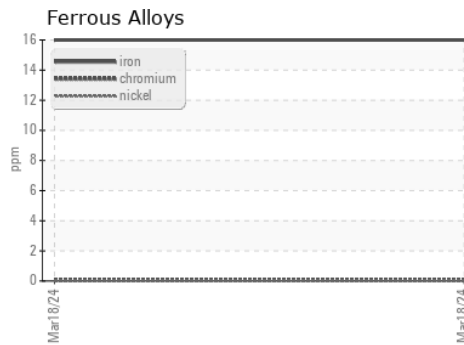
# OIL ANALYSIS REPORT



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	▲ 11.7	---	---

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC06136024 **Received** : 02 Apr 2024  
**Lab Number** : 06136024 **Tested** : 15 Apr 2024  
**Unique Number** : 10955489 **Diagnosed** : 15 Apr 2024 - Jonathan Hester  
**Test Package** : CONST ( Additional Tests: FuelDilution, Glycol, 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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