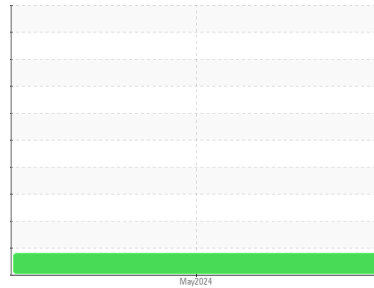




# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**



Machine Id  
**JOHN DEERE 1012**  
 Component  
**Diesel Engine**  
 Fluid  
**DYNAGARD 15W40 (5 GAL)**

## DIAGNOSIS

### ▲ Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

### ▲ Wear

Cylinder, crank, or cam shaft wear is indicated. All other component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0859395</b>	---	---
Sample Date	Client Info		<b>29 May 2024</b>	---	---
Machine Age	hrs	Client Info	<b>15514</b>	---	---
Oil Age	hrs	Client Info	<b>300</b>	---	---
Oil Changed	Client Info		<b>Changed</b>	---	---
Sample Status			<b>ABNORMAL</b>	---	---

## CONTAMINATION

	method	limit/base	current	history1	history2
Fuel	WC Method	>2.1	<b>&lt;1.0</b>	---	---
Glycol	WC Method		<b>NEG</b>	---	---

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>51	<b>▲ 56</b>	---
Chromium	ppm	ASTM D5185m	>11	<b>&lt;1</b>	---
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	---
Titanium	ppm	ASTM D5185m		<b>75</b>	---
Silver	ppm	ASTM D5185m	>3	<b>0</b>	---
Aluminum	ppm	ASTM D5185m	>31	<b>7</b>	---
Lead	ppm	ASTM D5185m	>26	<b>&lt;1</b>	---
Copper	ppm	ASTM D5185m	>26	<b>&lt;1</b>	---
Tin	ppm	ASTM D5185m	>4	<b>0</b>	---
Vanadium	ppm	ASTM D5185m		<b>&lt;1</b>	---
Cadmium	ppm	ASTM D5185m		<b>0</b>	---

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>76</b>	---
Barium	ppm	ASTM D5185m		<b>0</b>	---
Molybdenum	ppm	ASTM D5185m		<b>22</b>	---
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	---
Magnesium	ppm	ASTM D5185m		<b>441</b>	---
Calcium	ppm	ASTM D5185m		<b>2110</b>	---
Phosphorus	ppm	ASTM D5185m		<b>1195</b>	---
Zinc	ppm	ASTM D5185m		<b>1463</b>	---
Sulfur	ppm	ASTM D5185m		<b>5360</b>	---

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>22	<b>10</b>	---
Sodium	ppm	ASTM D5185m	>31	<b>6</b>	---
Potassium	ppm	ASTM D5185m	>20	<b>3</b>	---
Water	%	ASTM D6304	>0.21	<b>NEG</b>	---

## INFRA-RED

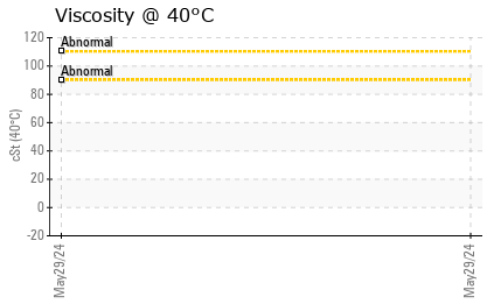
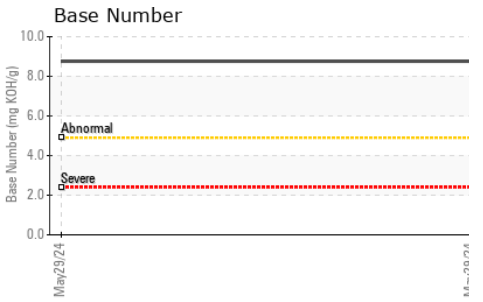
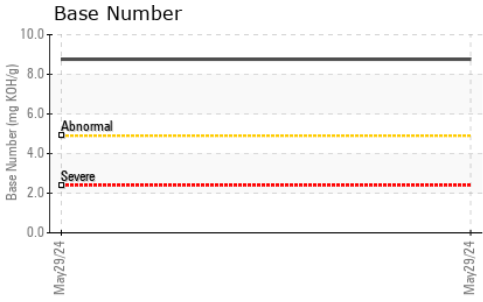
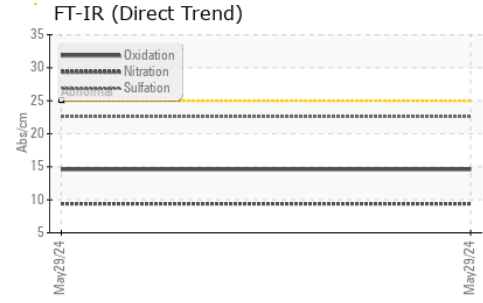
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>1.6</b>	---
Nitration	Abs/cm	*ASTM D7624	>20	<b>9.4</b>	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>22.6</b>	---

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.6</b>	---
Base Number (BN)	mg KOH/g	ASTM D2896		<b>8.76</b>	---



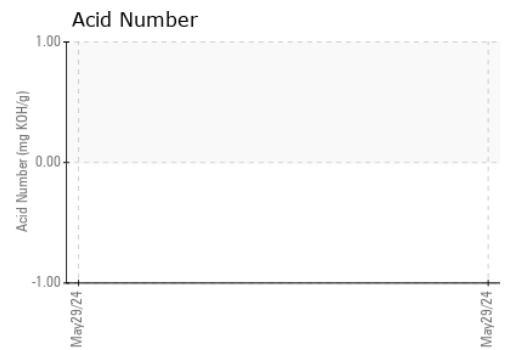
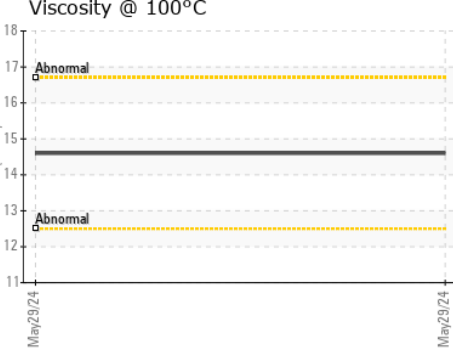
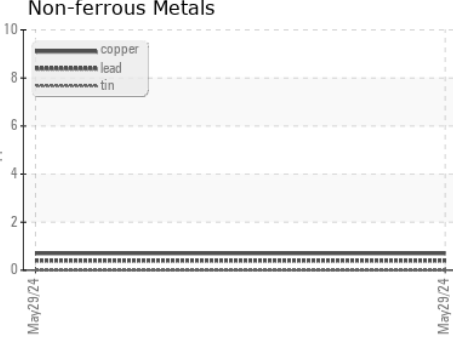
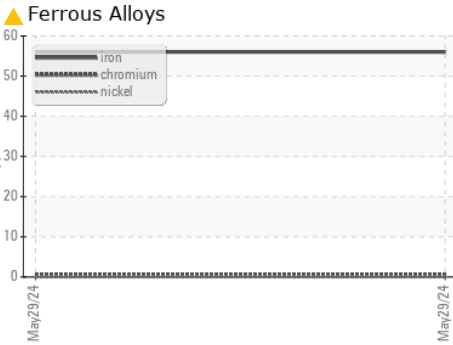
# OIL ANALYSIS REPORT



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	14.6	---	---

### GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0859395      **Received** : 06 Jun 2024  
**Lab Number** : 06202134      **Tested** : 10 Jun 2024  
**Unique Number** : 11069595      **Diagnosed** : 10 Jun 2024 - Don Baldrige  
**Test Package** : PLANT ( Additional Tests: FT-IR, KV100, TBN )

**KERSEY VALLEY LANDFILL**  
 3940 KIVETT DRIVE  
 JAMSTOWN, NC  
 US 27282  
 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)