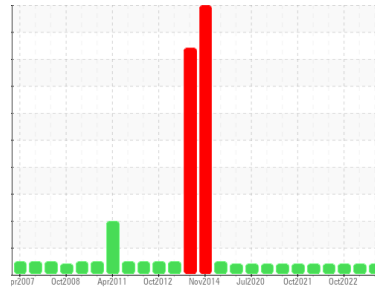




# OIL ANALYSIS REPORT

Sample Rating Trend



## ADDITIVES



Machine Id  
**JOHN DEERE 270CLC 8350 (S/N 270CFF270CX702180)**  
 Component  
**Hydraulic System**  
 Fluid  
**FIRE-RESISTANT FLUID ISO 32 (--- QTS)**

### DIAGNOSIS

#### Recommendation

Recommend drain oil if not already done. Reduce drain interval to 2000 hours or drain and flush and use recommended zinc free oil.

#### Wear

All component wear rates are normal.

#### Contamination

The amount and size of particulates present in the system are acceptable.

#### Fluid Condition

Zinc level above manufacturer's recommendations. The AN level is acceptable for this fluid.

### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0913258</b>	WC0790934	WC0734490
Sample Date	Client Info		<b>09 Apr 2024</b>	09 May 2023	26 Oct 2022
Machine Age	hrs	Client Info	<b>6272</b>	5212	4708
Oil Age	hrs	Client Info	<b>6272</b>	5212	4708
Oil Changed	Client Info		<b>Not Chngd</b>	Not Chngd	Not Chngd
Sample Status			<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

### WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >32	<b>17</b>	12	10
Chromium	ppm	ASTM D5185m >9	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m >5	<b>&lt;1</b>	0	0
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >9	<b>1</b>	0	<1
Lead	ppm	ASTM D5185m >28	<b>2</b>	0	<1
Copper	ppm	ASTM D5185m >50	<b>8</b>	6	6
Tin	ppm	ASTM D5185m >5	<b>1</b>	0	0
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0

### ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 5	<b>3</b>	0	2
Barium	ppm	ASTM D5185m 5	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185m 5	<b>1</b>	0	<1
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Magnesium	ppm	ASTM D5185m 5	<b>5</b>	2	4
Calcium	ppm	ASTM D5185m 50	<b>330</b>	287	282
Phosphorus	ppm	ASTM D5185m 175	<b>772</b>	646	655
Zinc	ppm	ASTM D5185m 62	<b>▲ 893</b>	▲ 803	▲ 845
Sulfur	ppm	ASTM D5185m 500	<b>1872</b>	1682	1939

### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >11	<b>4</b>	2	2
Sodium	ppm	ASTM D5185m >21	<b>7</b>	2	4
Potassium	ppm	ASTM D5185m >20	<b>2</b>	0	0
Water	%	ASTM D6304 >55	<b>NEG</b>	NEG	NEG

### FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>80000	<b>774</b>	434	616
Particles >6µm	ASTM D7647	>20000	<b>119</b>	106	181
Particles >14µm	ASTM D7647	>640	<b>10</b>	16	21
Particles >21µm	ASTM D7647	>160	<b>3</b>	5	4
Particles >38µm	ASTM D7647	>40	<b>1</b>	0	0
Particles >71µm	ASTM D7647	>10	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>23/21/16	<b>17/14/10</b>	16/14/11	16/15/12

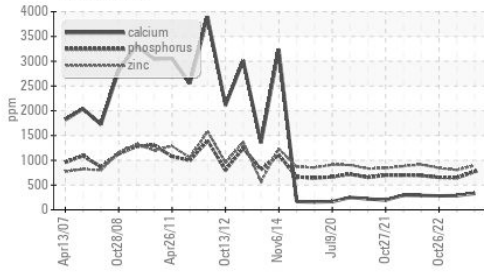
### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 3.63	<b>0.91</b>	0.766	0.81

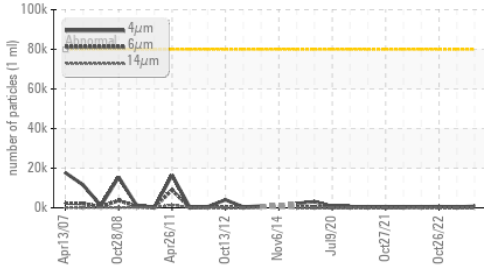


# OIL ANALYSIS REPORT

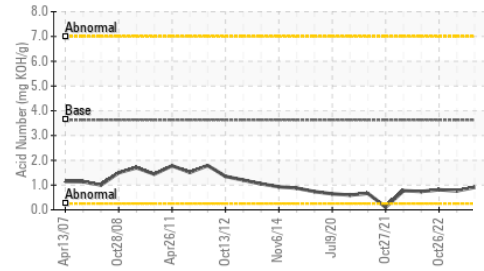
## Additives



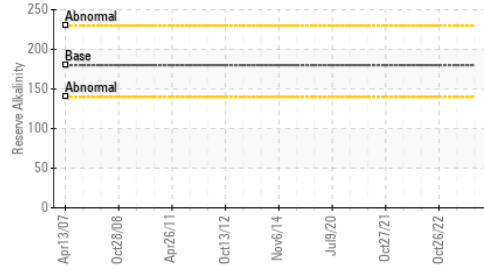
## Particle Trend



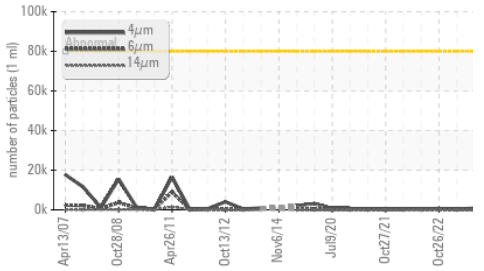
## Acid Number



## Reserve Alkalinity



## Particle Trend



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
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	>55	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	32	38.1	37.9

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color

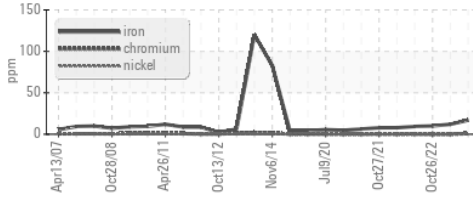


Bottom

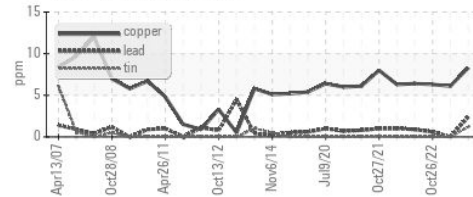


## GRAPHS

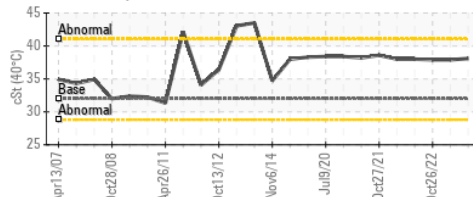
### Ferrous Alloys



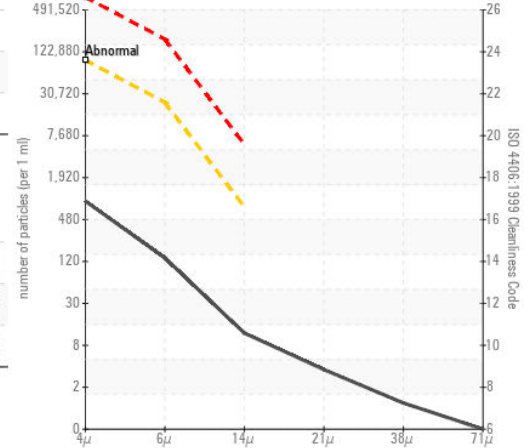
### Non-ferrous Metals



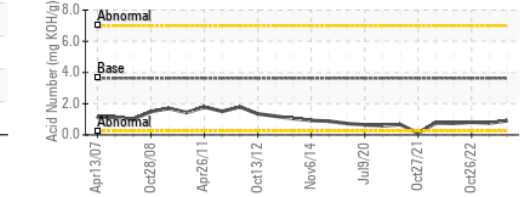
### Viscosity @ 40°C



### Particle Count



### Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : WC0913258

Lab Number : 06147244

Unique Number : 10977322

Test Package : CONST ( Additional Tests: KF, pH, ReserveAlk )

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)

Received : 12 Apr 2024

Tested : 16 Apr 2024

Diagnosed : 16 Apr 2024 - Don Baldrige

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