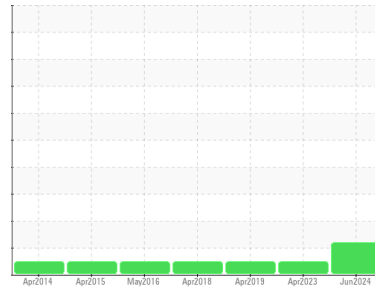




# OIL ANALYSIS REPORT

Sample Rating Trend



FUEL



Machine Id  
**JOHN DEERE H0001**  
 Component  
**Diesel Engine**  
 Fluid  
**DISEL ENGINE OIL SAE 15W40 (25 LTR)**

## DIAGNOSIS

### Recommendation

We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

### Wear

Metal levels are typical for a new component breaking in.

### Contamination

There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

### Fluid Condition

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

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WC0918792</b>	WC0709840	WC0313680
Sample Date	Client Info			<b>05 Jun 2024</b>	26 Apr 2023	18 Apr 2019
Machine Age	hrs	Client Info		<b>61</b>	417	316
Oil Age	hrs	Client Info		<b>29</b>	10	35
Oil Changed	Client Info			<b>Not Chngd</b>	N/A	Not Chngd
Sample Status				<b>ABNORMAL</b>	NORMAL	NORMAL

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

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>51	<b>3</b>	3	2
Chromium	ppm	ASTM D5185(m)	>11	<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)	>5	<b>&lt;1</b>	<1	0
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Silver	ppm	ASTM D5185(m)	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>31	<b>1</b>	<1	<1
Lead	ppm	ASTM D5185(m)	>26	<b>2</b>	1	<1
Copper	ppm	ASTM D5185(m)	>26	<b>8</b>	4	<1
Tin	ppm	ASTM D5185(m)	>4	<b>&lt;1</b>	<1	0
Antimony	ppm	ASTM D5185(m)		<b>0</b>	0	0
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	0	<1

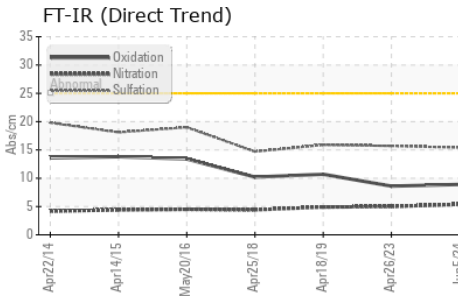
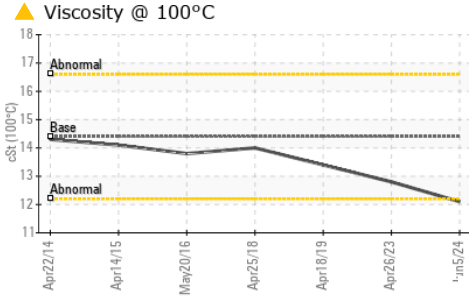
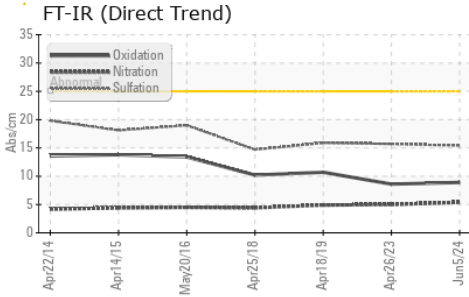
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)	250	<b>28</b>	28	1
Barium	ppm	ASTM D5185(m)	10	<b>&lt;1</b>	0	0
Molybdenum	ppm	ASTM D5185(m)	100	<b>22</b>	22	45
Manganese	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185(m)	450	<b>83</b>	87	734
Calcium	ppm	ASTM D5185(m)	3000	<b>1989</b>	2208	1240
Phosphorus	ppm	ASTM D5185(m)	1150	<b>803</b>	903	950
Zinc	ppm	ASTM D5185(m)	1350	<b>892</b>	942	1117
Sulfur	ppm	ASTM D5185(m)	4250	<b>2753</b>	3003	2830
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	0

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>22	<b>7</b>	5	2
Sodium	ppm	ASTM D5185(m)	>158	<b>2</b>	2	1
Potassium	ppm	ASTM D5185(m)	>20	<b>1</b>	1	0
Fuel	%	ASTM D7593*	>2.1	<b>▲ 2.9</b>	<1.0	<1.0

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*	>3	<b>0</b>	0	0
Nitration	Abs/cm	ASTM D7624*	>20	<b>5.4</b>	5.0	4.9
Sulfation	Abs./1mm	ASTM D7415*	>30	<b>15.4</b>	15.7	15.9



# OIL ANALYSIS REPORT

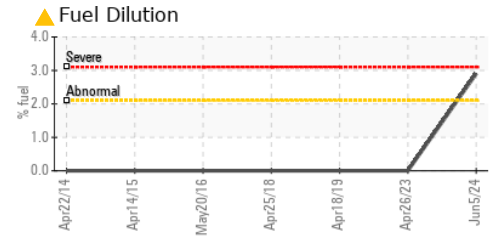
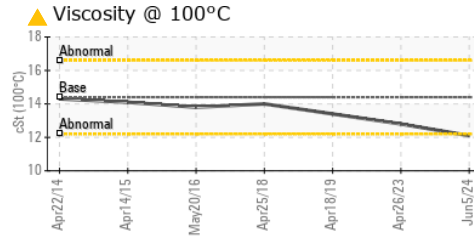
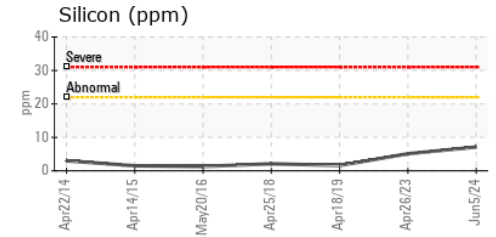
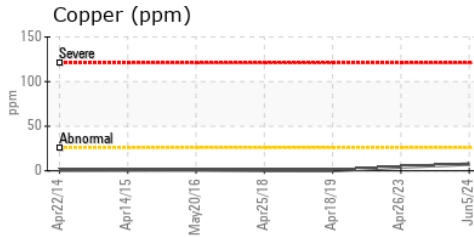
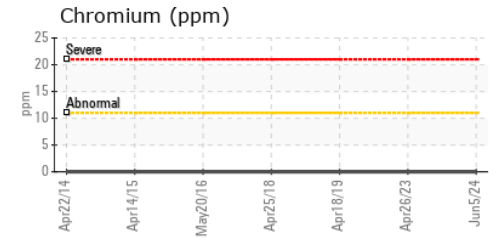
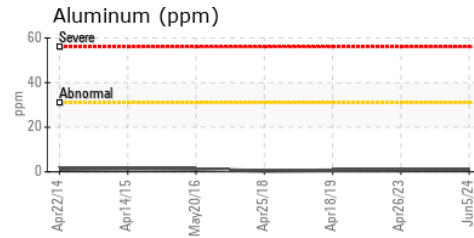
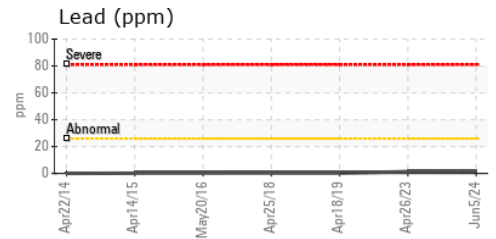
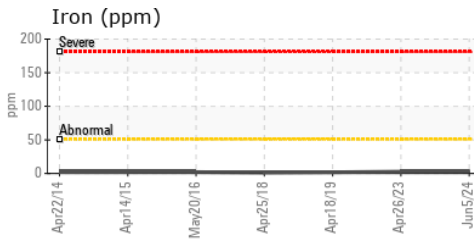


FLUID DEGRADATION	method	limit/base	current	history1	history2	
Oxidation	Abs./1mm	ASTM D7414*	>25	<b>8.9</b>	8.6	10.7

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	<b>NEG</b>	NEG
Free Water	scalar	Visual*	<b>NEG</b>	NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	<b>▲ 12.1</b>	12.8	13.4

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0918792  
**Lab Number** : **02642841**  
**Unique Number** : 5800380  
**Test Package** : MOB 1 ( Additional Tests: FuelDilution, PercentFuel, Visual )

**GENCARE SERVICES LTD.**  
 360 SOVEREIGN ROAD  
 LONDON, ON  
 CA N6M 1A8  
 Contact: Teresa Matthews  
 tmatthews@gencare.com  
 T: (519)659-7118  
 F: (519)451-1707

Received : 19 Jun 2024  
 Tested : 20 Jun 2024  
 Diagnosed : 20 Jun 2024 - Wes Davis

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.