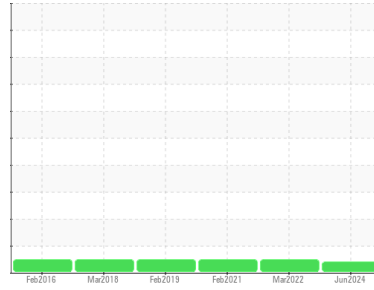




OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Machine Id
JOHN DEERE M0091
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 15W40 (20 Shots)

DIAGNOSIS

▲ Recommendation

Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

Tests indicate that there is no fuel present in the oil. There is no indication of any contamination in the oil.

▲ Fluid Condition

Viscosity of sample indicates oil is within SAE 30 range, advise investigate. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0918794	WC0634015	WC0510679
Sample Date	Client Info	03 Jun 2024	04 Mar 2022	24 Feb 2021
Machine Age	hrs	162	145	130
Oil Age	hrs	9	30	15
Oil Changed	Client Info	Not Chngd	Not Chngd	Not Chngd
Sample Status		ABNORMAL	NORMAL	NORMAL

CONTAMINATION

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

WEAR METALS

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

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m) 250	8	68	70
Barium	ppm ASTM D5185(m) 10	0	0	0
Molybdenum	ppm ASTM D5185(m) 100	6	85	87
Manganese	ppm ASTM D5185(m)	0	<1	<1
Magnesium	ppm ASTM D5185(m) 450	15	43	41
Calcium	ppm ASTM D5185(m) 3000	2077	2114	2076
Phosphorus	ppm ASTM D5185(m) 1150	813	1013	938
Zinc	ppm ASTM D5185(m) 1350	906	1126	1124
Sulfur	ppm ASTM D5185(m) 4250	2782	3238	3427
Lithium	ppm ASTM D5185(m)	<1	<1	<1

CONTAMINANTS

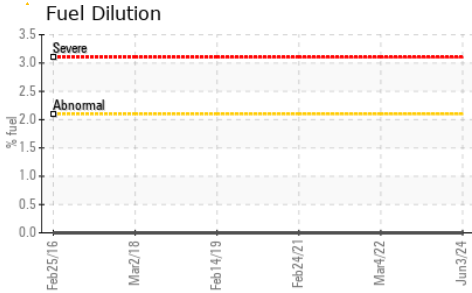
method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >22	3	4	5
Sodium	ppm ASTM D5185(m) >158	2	2	3
Potassium	ppm ASTM D5185(m) >20	<1	<1	<1
Fuel	% ASTM D7593* >2.1	0.0	<1.0	<1.0

INFRA-RED

method	limit/base	current	history1	history2
Soot %	% ASTM D7844* >3	0	0	0
Nitration	Abs/cm ASTM D7624* >20	5.4	3.7	7.4
Sulfation	Abs/.1mm ASTM D7415* >30	15.0	14.0	17.1



OIL ANALYSIS REPORT

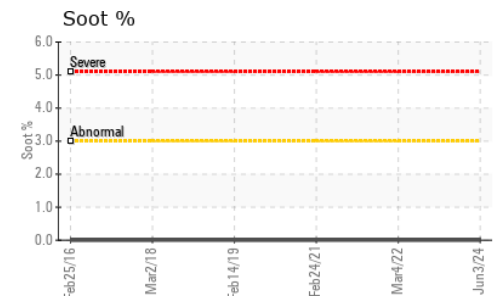
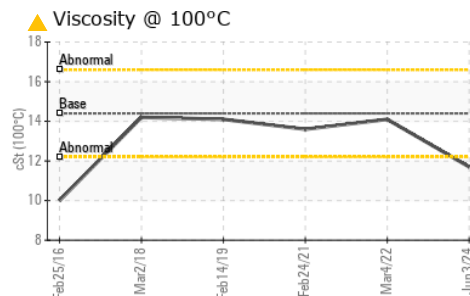
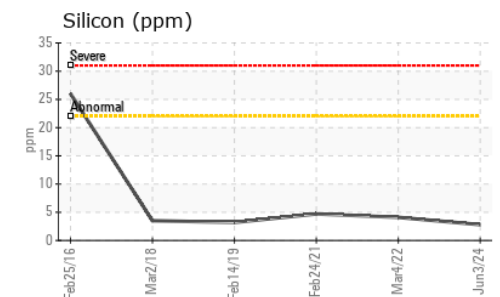
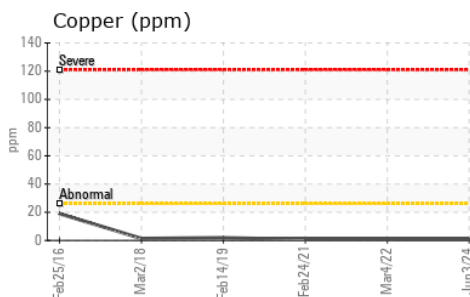
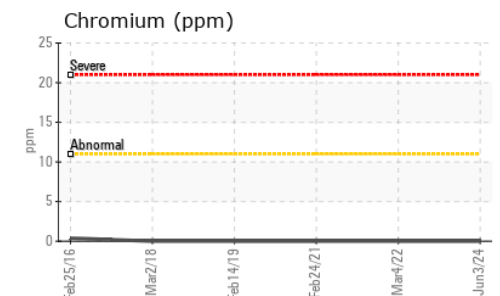
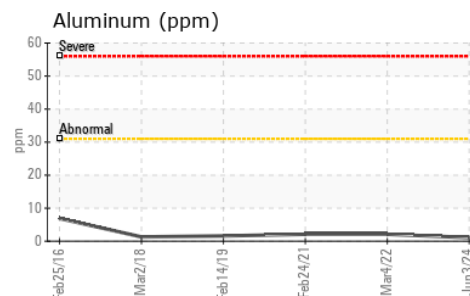
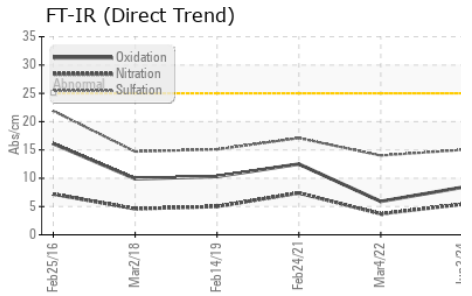
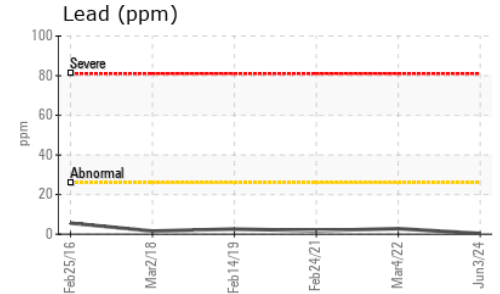
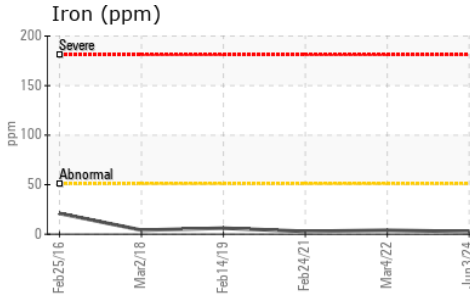
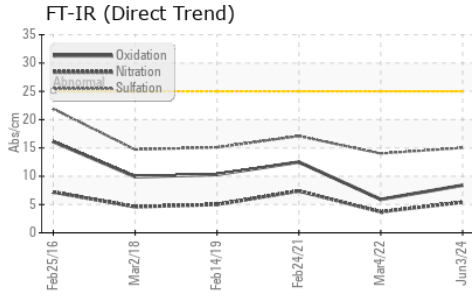


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	8.4	5.9	12.5

VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.21	NEG	NEG	NEG
Free Water	scalar	Visual*		NEG	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	14.4	▲ 11.7	14.1	13.6

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0918794 **Received** : 19 Jun 2024
Lab Number : **02642862** **Tested** : 20 Jun 2024
Unique Number : 5800401 **Diagnosed** : 21 Jun 2024 - Kevin Marson
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel)

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.

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