

OIL ANALYSIS REPORT

Sample Rating Trend

FUEL



Area
[6100265222]
Machine Id
MTU 95090503357
Component
Diesel Engine
Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)



DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. 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	WA0021309	---	---
Sample Date	Client Info	04 Mar 2024	---	---
Machine Age	hrs	70	---	---
Oil Age	hrs	0	---	---
Oil Changed	Client Info	Changed	---	---
Sample Status		ABNORMAL	---	---

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >0.2	NEG	---	---
Glycol	WC Method	NEG	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185(m) >100	24	---	---
Chromium	ppm ASTM D5185(m) >20	<1	---	---
Nickel	ppm ASTM D5185(m) >4	<1	---	---
Titanium	ppm ASTM D5185(m)	0	---	---
Silver	ppm ASTM D5185(m) >3	0	---	---
Aluminum	ppm ASTM D5185(m) >20	4	---	---
Lead	ppm ASTM D5185(m) >40	7	---	---
Copper	ppm ASTM D5185(m) >330	27	---	---
Tin	ppm ASTM D5185(m) >15	3	---	---
Antimony	ppm ASTM D5185(m)	0	---	---
Vanadium	ppm ASTM D5185(m)	0	---	---
Beryllium	ppm ASTM D5185(m)	0	---	---
Cadmium	ppm ASTM D5185(m)	0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m)	232	---	---
Barium	ppm ASTM D5185(m)	1	---	---
Molybdenum	ppm ASTM D5185(m)	238	---	---
Manganese	ppm ASTM D5185(m)	8	---	---
Magnesium	ppm ASTM D5185(m)	780	---	---
Calcium	ppm ASTM D5185(m)	1320	---	---
Phosphorus	ppm ASTM D5185(m)	858	---	---
Zinc	ppm ASTM D5185(m)	951	---	---
Sulfur	ppm ASTM D5185(m)	2618	---	---
Lithium	ppm ASTM D5185(m)	<1	---	---

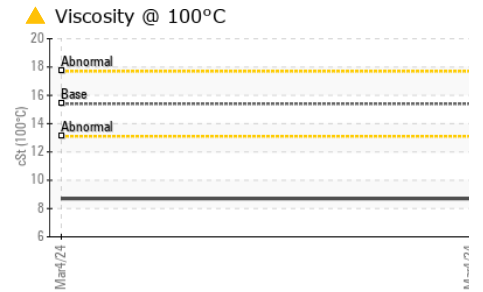
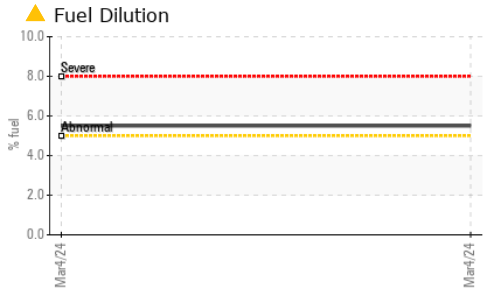
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m) >25	21	---	---
Sodium	ppm ASTM D5185(m)	6	---	---
Potassium	ppm ASTM D5185(m) >20	4	---	---
Fuel	% ASTM D7593* >5	▲ 5.5	---	---

INFRA-RED

method	limit/base	current	history1	history2
Soot %	% ASTM D7844* >3	0	---	---
Nitration	Abs/cm ASTM D7624* >20	6.4	---	---
Sulfation	Abs/.1mm ASTM D7415* >30	19.7	---	---

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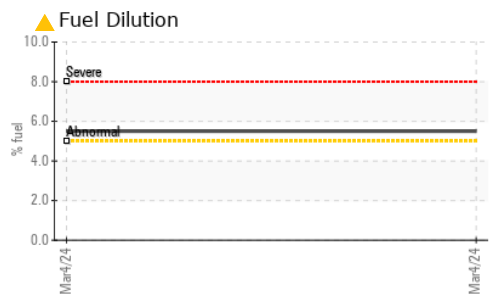
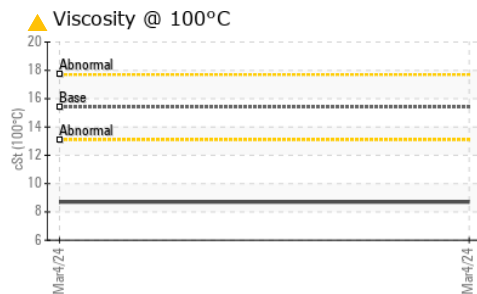
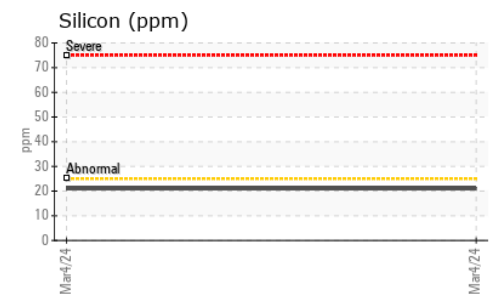
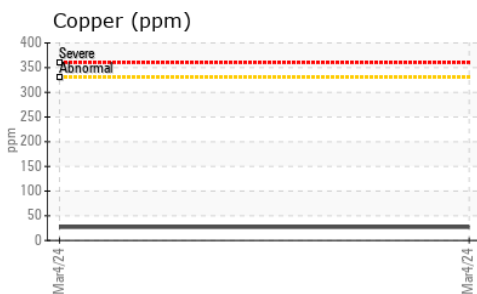
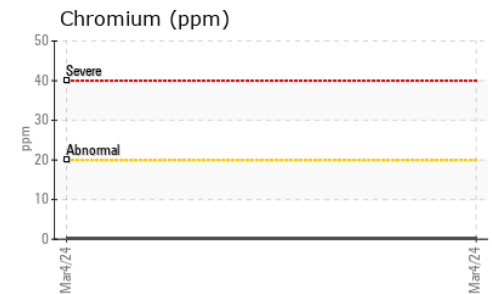
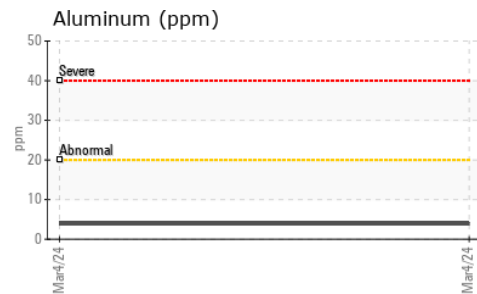
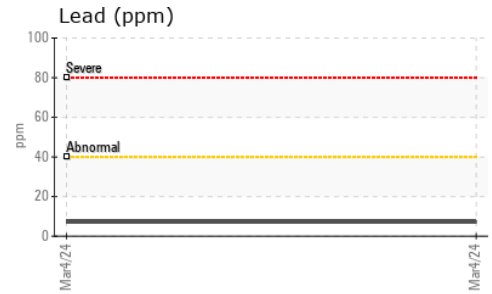
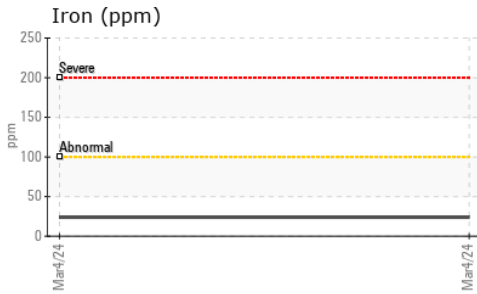


FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs./1mm	ASTM D7414*	>25	14.3	---	---

VISUAL		method	limit/base	current	history1	history2
Emulsified Water	scalar	Visual*	>0.2	NEG	---	---
Free Water	scalar	Visual*		NEG	---	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D7279(m)	15.4	▲ 8.7	---	---

GRAPHS



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WA0021309 **Received** : 12 Mar 2024
Lab Number : **02621368** **Tested** : 13 Mar 2024
Unique Number : 5746487 **Diagnosed** : 13 Mar 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: FuelDilution, PercentFuel)

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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.