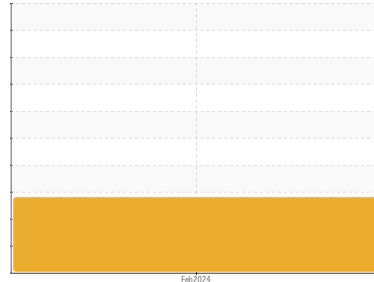




Machine Id
JOHN DEERE 4052R
 Component
Diesel Engine
 Fluid
DIESEL ENGINE OIL SAE 15W40 (--- GAL)



DIAGNOSIS

▲ Recommendation
 We advise that you check the fuel injection system. 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 components first oil change.

▲ Contamination
 There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

▲ Fluid Condition
 The BN result indicates that there is suitable alkalinity remaining in the oil. 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	PCA0105117	---	---
Sample Date	Client Info	27 Feb 2024	---	---
Machine Age	hrs	82	---	---
Oil Age	hrs	82	---	---
Oil Changed	Client Info	Changed	---	---
Sample Status		SEVERE	---	---

CONTAMINATION

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

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>51	13	---
Chromium	ppm	ASTM D5185m	>11	<1	---
Nickel	ppm	ASTM D5185m	>5	<1	---
Titanium	ppm	ASTM D5185m		<1	---
Silver	ppm	ASTM D5185m	>3	<1	---
Aluminum	ppm	ASTM D5185m	>31	6	---
Lead	ppm	ASTM D5185m	>26	2	---
Copper	ppm	ASTM D5185m	>26	44	---
Tin	ppm	ASTM D5185m	>4	2	---
Vanadium	ppm	ASTM D5185m		<1	---
Cadmium	ppm	ASTM D5185m		<1	---

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	250	258	---
Barium	ppm	ASTM D5185m	10	10	---
Molybdenum	ppm	ASTM D5185m	100	226	---
Manganese	ppm	ASTM D5185m		2	---
Magnesium	ppm	ASTM D5185m	450	629	---
Calcium	ppm	ASTM D5185m	3000	1929	---
Phosphorus	ppm	ASTM D5185m	1150	933	---
Zinc	ppm	ASTM D5185m	1350	1074	---
Sulfur	ppm	ASTM D5185m	4250	3799	---

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>22	57	---
Sodium	ppm	ASTM D5185m	>158	14	---
Potassium	ppm	ASTM D5185m	>20	3	---
Fuel	%	ASTM D3524	>2.1	▲ 4.9	---

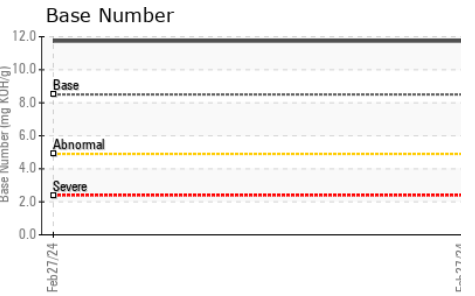
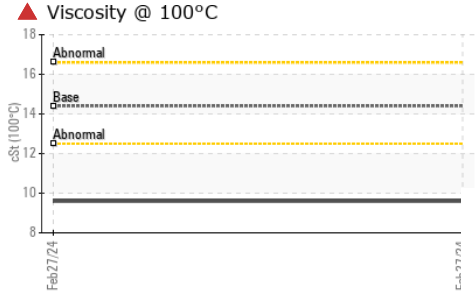
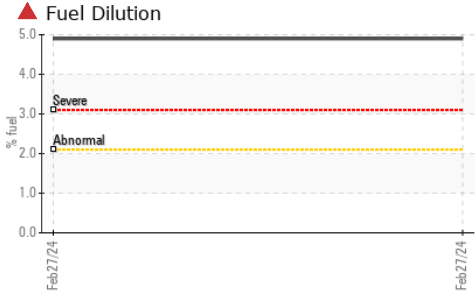
INFRA-RED

method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.1	---
Nitration	Abs/cm	*ASTM D7624	>20	6.6	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	20.4	---

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Oxidation	Abs/.1mm	*ASTM D7414	>25	18.2	---
Base Number (BN)	mg KOH/g	ASTM D2896	8.5	11.74	---

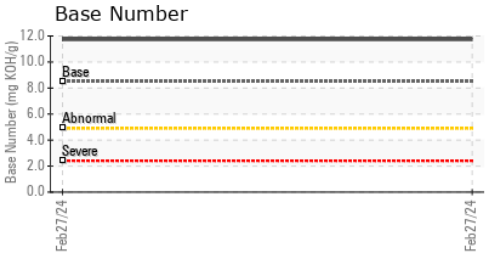
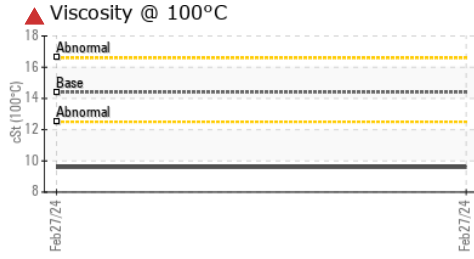
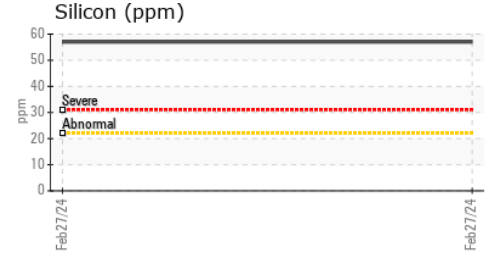
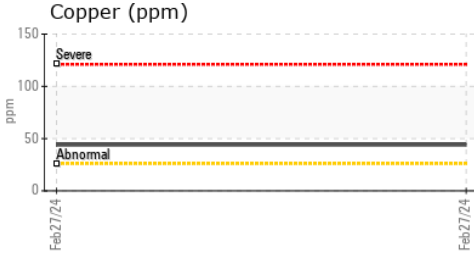
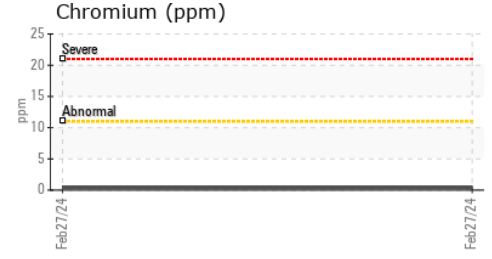
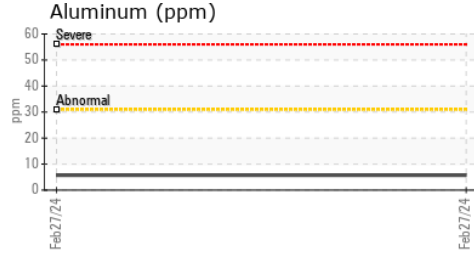
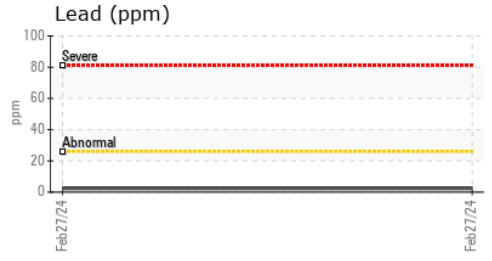
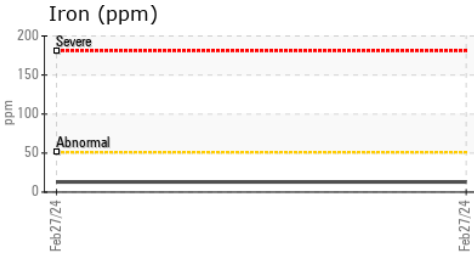
OIL ANALYSIS REPORT



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	14.4 ▲ 9.6	---	---

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0105117 **Received** : 25 Mar 2024
Lab Number : 06128835 **Tested** : 28 Mar 2024
Unique Number : 10942986 **Diagnosed** : 28 Mar 2024 - Wes Davis
Test Package : MOB 2 (Additional Tests: FuelDilution, PercentFuel)

B & B HARVESTING
 2842 LADD RD
 MODESTO, CA
 US 95356
 Contact: Service Manager
 drcalvalley@gmail.com
 T: (209)545-8300
 F:

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)