



WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	NORMAL

Area
[GEORGE ECKHARDT]
 Machine Id
JOHN DEERE 4X2 TX 59001615 (S/N 1M04X2XDLNBJ171907)
 Component
Gasoline Engine
 Fluid
TURF GUARD 10W30 (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. We recommend that you drain the oil and perform a filter service on this component if not already done. We recommend an early resample to monitor this condition.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0140279	---	---
Sample Date		Client Info		28 Feb 2023	---	---
Machine Age	hrs	Client Info		41	---	---
Oil Age	hrs	Client Info		33	---	---
Filter Age	hrs	Client Info		33	---	---
Oil Changed		Client Info		Not Chngd	---	---
Filter Changed		Client Info		Not Chngd	---	---
Sample Status				SEVERE	---	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	30	---	---
Chromium	ppm	ASTM D5185m	>11	1	---	---
Nickel	ppm	ASTM D5185m	>5	0	---	---
Titanium	ppm	ASTM D5185m		0	---	---
Silver	ppm	ASTM D5185m	>3	<1	---	---
Aluminum	ppm	ASTM D5185m	>31	14	---	---
Lead	ppm	ASTM D5185m	>26	2	---	---
Copper	ppm	ASTM D5185m	>26	14	---	---
Tin	ppm	ASTM D5185m	>4	4	---	---
Vanadium	ppm	ASTM D5185m		<1	---	---
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---

CONTAMINATION

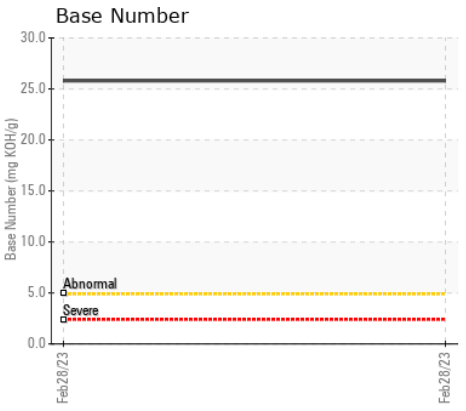
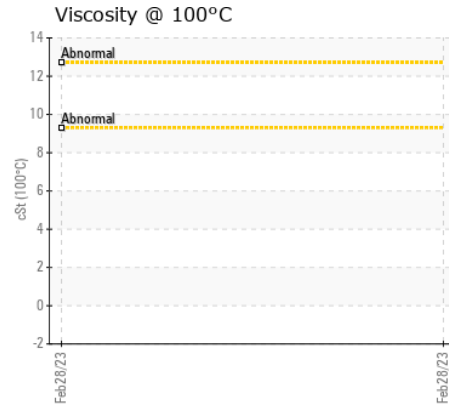
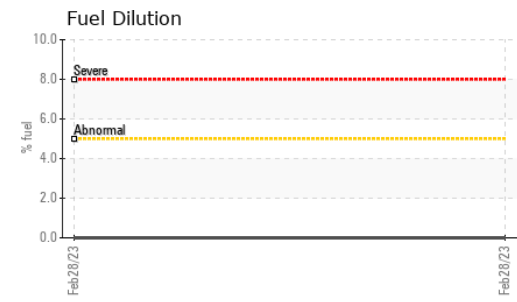
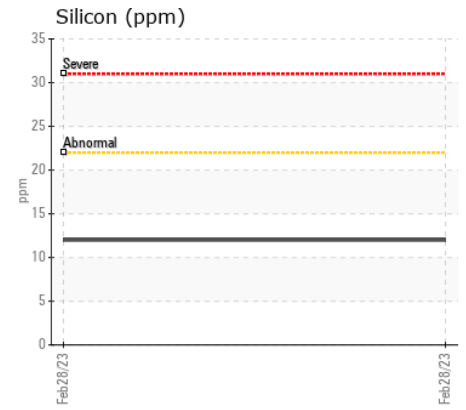
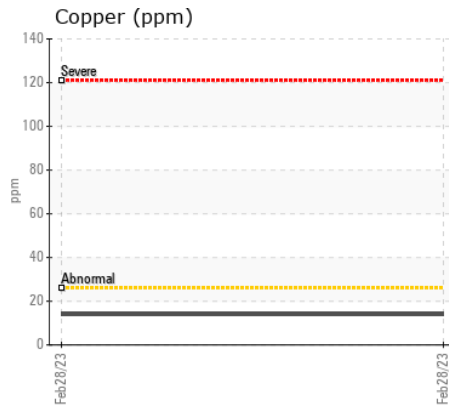
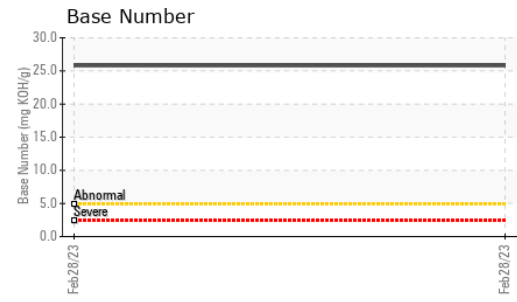
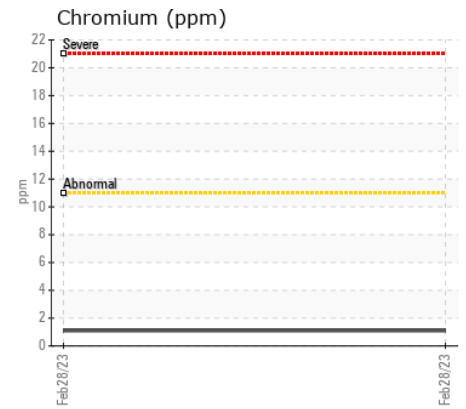
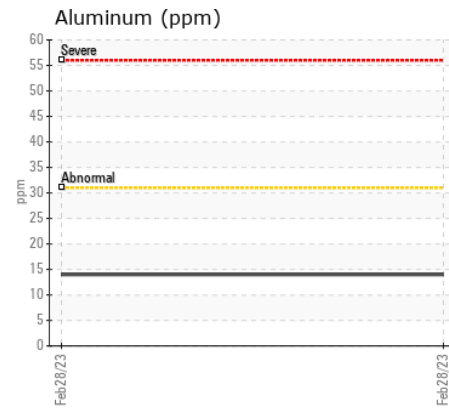
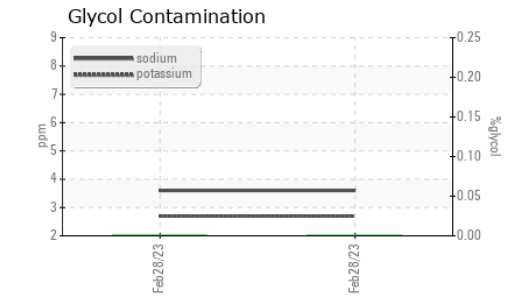
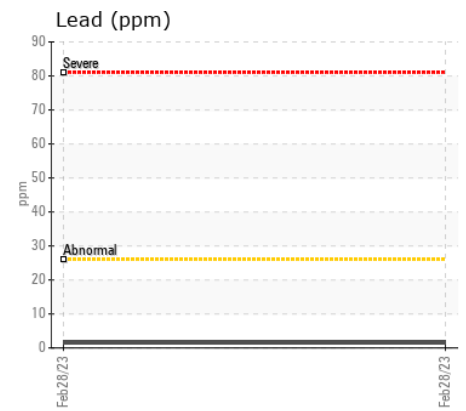
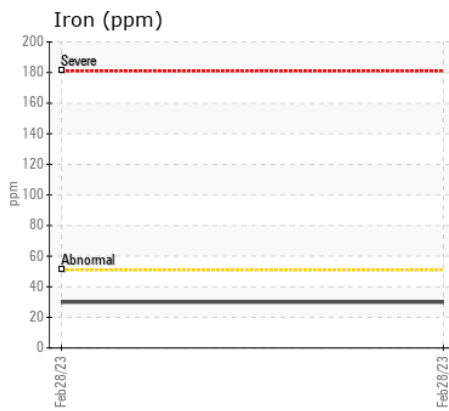
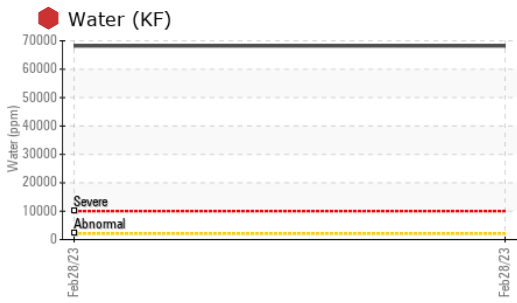
Appearance is milky. There is a high concentration of water present in the oil.

Silicon	ppm	ASTM D5185m	>22	12	---	---
Potassium	ppm	ASTM D5185m	>20	3	---	---
Fuel	%	ASTM D3524	>5	<1.0	---	---
Water	%	ASTM D6304	>0.21	6.82	---	---
ppm Water	ppm	ASTM D6304	>2100	68200	---	---
Glycol	%	*ASTM D2982		0.0	---	---
Soot %	%	*ASTM D7844	>3	0.2	---	---
Nitration	Abs/cm	*ASTM D7624	>20	25.6	---	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	0.0	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	LIGHT	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	MILKY	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.21	0.2%	---	---

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

Sodium	ppm	ASTM D5185m	>31	4	---	---
Boron	ppm	ASTM D5185m		99	---	---
Barium	ppm	ASTM D5185m		0	---	---
Molybdenum	ppm	ASTM D5185m		159	---	---
Manganese	ppm	ASTM D5185m		2	---	---
Magnesium	ppm	ASTM D5185m		292	---	---
Calcium	ppm	ASTM D5185m		825	---	---
Phosphorus	ppm	ASTM D5185m		443	---	---
Zinc	ppm	ASTM D5185m		568	---	---
Sulfur	ppm	ASTM D5185m		1750	---	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	14.0	---	---
Base Number (BN)	mg KOH/g	ASTM D2896		25.8	---	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0140279 **Received** : 03 Mar 2023
Lab Number : 05782247 **Diagnosed** : 06 Mar 2023
Unique Number : 10361917 **Diagnostician** : Jonathan Hester
Test Package : MOBCE (Additional Tests: FuelDilution, Glycol, KF, TBN)

JRE - EDINBURG
 601 NORTH MAIN ST
 WOODSTOCK, VA
 US 22664

Contact: MIKE SECHLER
 MSECHLER@JAMESRIVEREQUIPMENT.COM

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)

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 F: