



OIL ANALYSIS REPORT

WEAR	ABNORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area

[W10828]

Machine Id

JOHN DEERE 333G 1T0333GMVNF427183

Component

Diesel Engine

Fluid

{not provided} (--- GAL)

RECOMMENDATION

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0125898	JR0125865	---
Sample Date		Client Info		09 Jan 2024	02 Feb 2023	---
Machine Age	hrs	Client Info		1307	438	---
Oil Age	hrs	Client Info		438	0	---
Filter Age	hrs	Client Info		1307	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	N/A	---
Sample Status				ABNORMAL	ABNORMAL	---

WEAR

The copper level has decreased, but is still abnormal. All other component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	46	29	---
Chromium	ppm	ASTM D5185m	>11	<1	<1	---
Nickel	ppm	ASTM D5185m	>5	<1	1	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>3	<1	<1	---
Aluminum	ppm	ASTM D5185m	>31	7	6	---
Lead	ppm	ASTM D5185m	>26	<1	0	---
Copper	ppm	ASTM D5185m	>26	▲ 73	▲ 311	---
Tin	ppm	ASTM D5185m	>4	<1	<1	---
Vanadium	ppm	ASTM D5185m		<1	<1	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

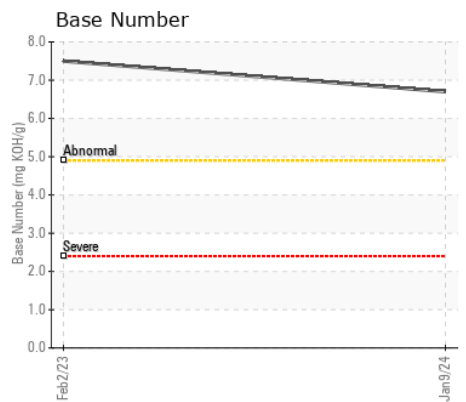
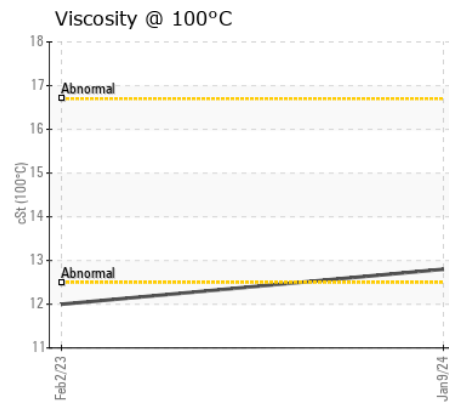
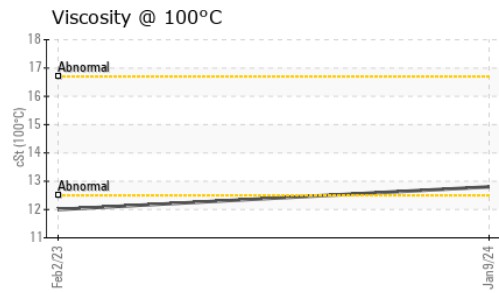
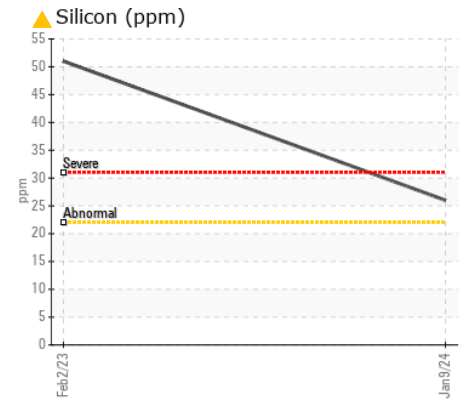
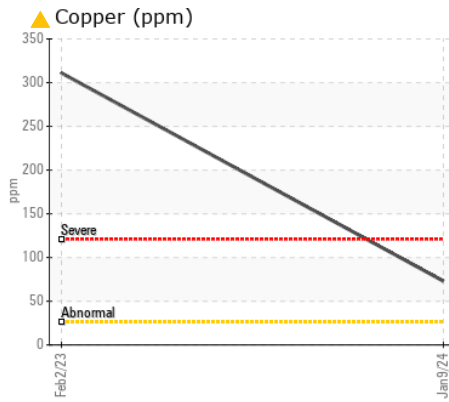
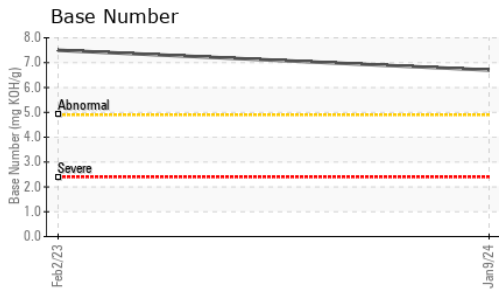
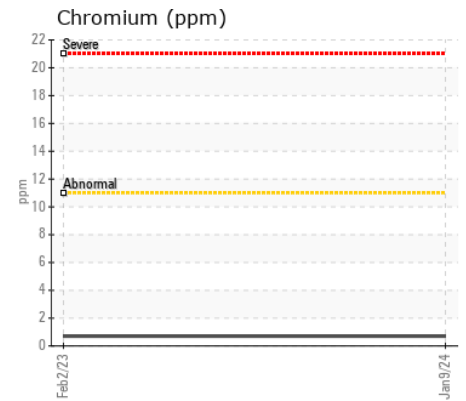
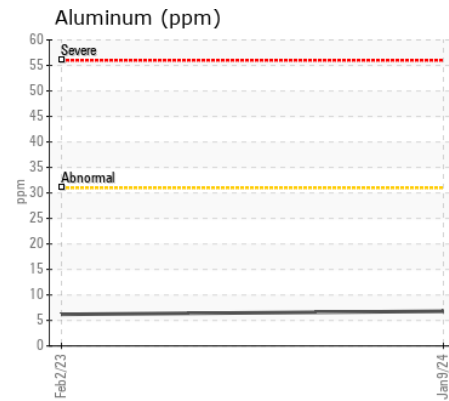
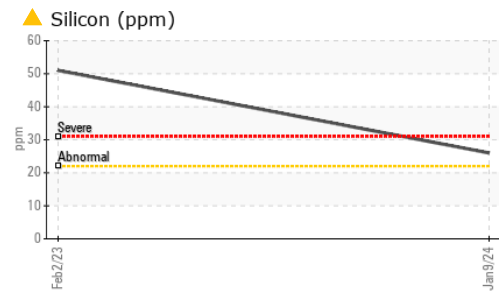
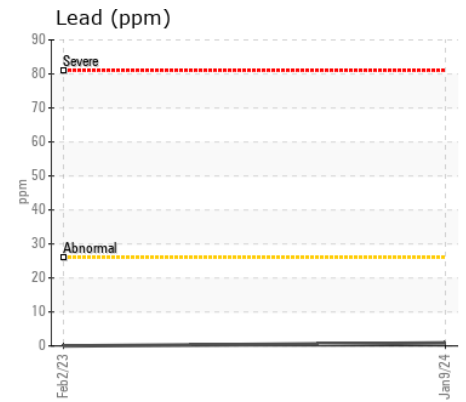
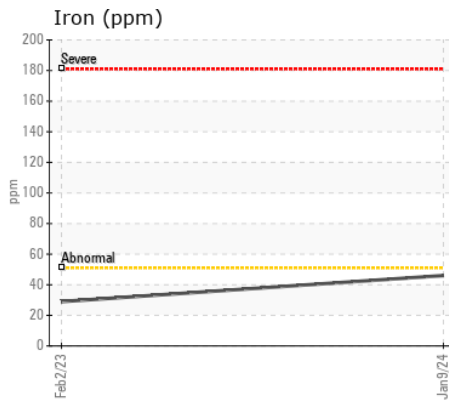
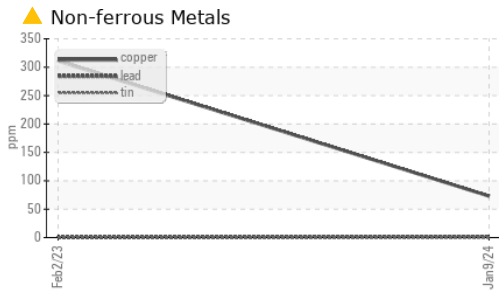
Elemental level of silicon (Si) above normal indicating ingress of seal material.

Silicon	ppm	ASTM D5185m	>22	▲ 26	51	---
Potassium	ppm	ASTM D5185m	>20	1	3	---
Fuel		WC Method	>2.1	<1.0	0.8	---
Water		WC Method	>0.21	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.7	0.3	---
Nitration	Abs/cm	*ASTM D7624	>20	11.7	9.7	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	31.3	26.5	---
Silt	scalar	*Visual	NONE	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	---

FLUID CONDITION

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Sodium	ppm	ASTM D5185m	>31	4	9	---
Boron	ppm	ASTM D5185m		101	203	---
Barium	ppm	ASTM D5185m		0	2	---
Molybdenum	ppm	ASTM D5185m		272	246	---
Manganese	ppm	ASTM D5185m		1	2	---
Magnesium	ppm	ASTM D5185m		850	692	---
Calcium	ppm	ASTM D5185m		1559	1847	---
Phosphorus	ppm	ASTM D5185m		951	883	---
Zinc	ppm	ASTM D5185m		1149	1104	---
Sulfur	ppm	ASTM D5185m		2723	3151	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	31.1	24.3	---
Base Number (BN)	mg KOH/g	ASTM D2896		6.7	7.5	---
Visc @ 100°C	cSt	ASTM D445		12.8	12.0	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0125898 **Received** : 17 Jan 2024
Lab Number : 06063283 **Diagnosed** : 19 Jan 2024
Unique Number : 10834665 **Diagnostician** : Don Baldridge
Test Package : MOBCE (Additional Tests: TBN)

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)

JRE - SALEM
 3902 W. MAIN STREET
 SALEM, VA
 US 24153

Contact: ROBERT SMITH
 ROBERT.SMITH@JAMESRIVEREQUIPMENT.COM

T:
 F: (540)380-5547