



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Area
[CARABEE]
 Machine Id
JOHN DEERE 225DX C257355 (S/N 1FF225DXTA0501599)
 Component
Diesel Engine
 Fluid
JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		JR0165854	JR0133352	---
Sample Date		Client Info		25 Oct 2023	09 Aug 2022	---
Machine Age	hrs	Client Info		8125	7809	---
Oil Age	hrs	Client Info		0	7809	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		Changed	Changed	---
Filter Changed		Client Info		Changed	Changed	---
Sample Status				NORMAL	NORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	11	12	---
Chromium	ppm	ASTM D5185m	>11	<1	<1	---
Nickel	ppm	ASTM D5185m	>5	<1	0	---
Titanium	ppm	ASTM D5185m		<1	<1	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>31	6	8	---
Lead	ppm	ASTM D5185m	>26	3	2	---
Copper	ppm	ASTM D5185m	>26	2	3	---
Tin	ppm	ASTM D5185m	>4	<1	<1	---
Vanadium	ppm	ASTM D5185m		<1	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

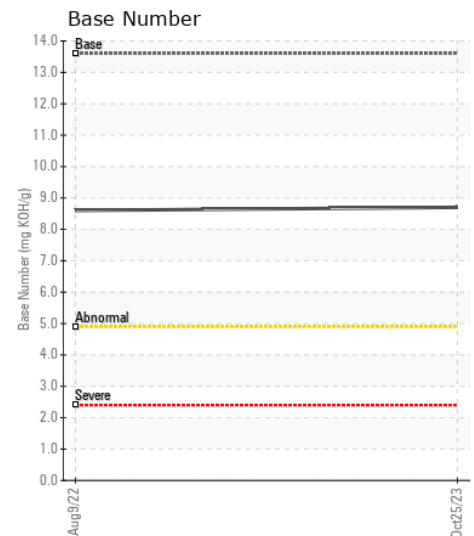
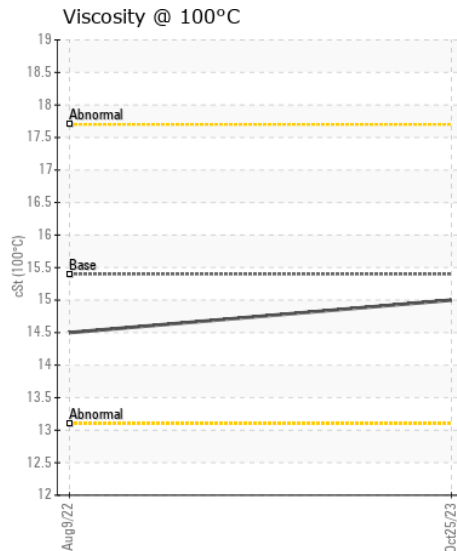
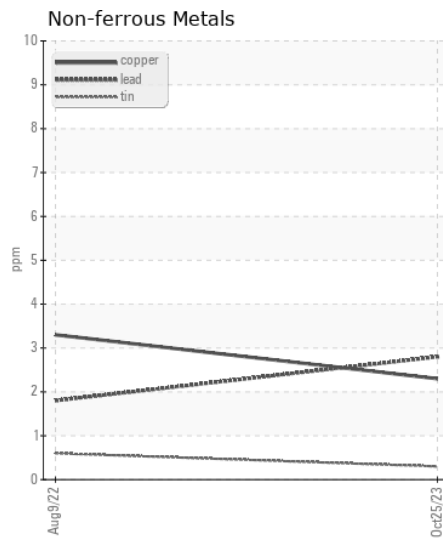
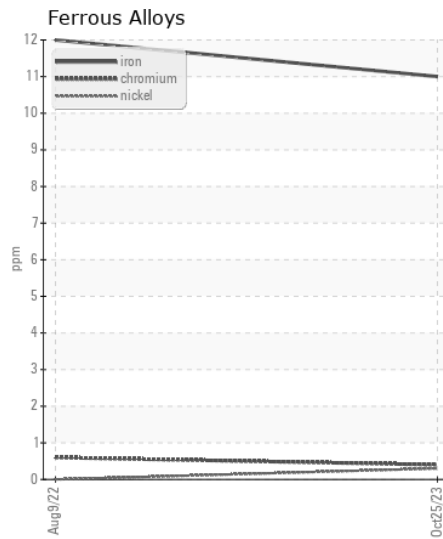
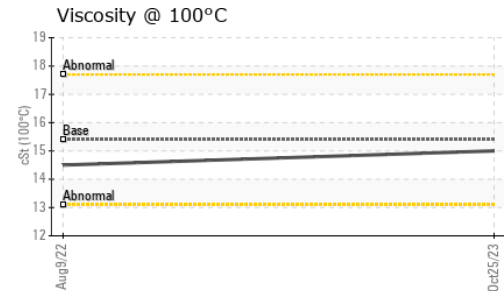
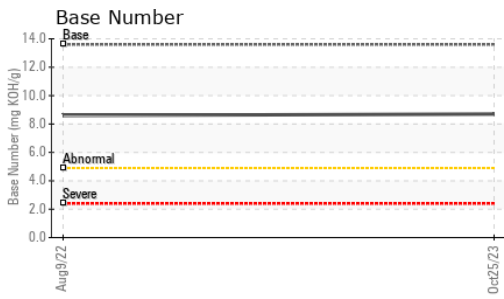
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	8	4	---
Potassium	ppm	ASTM D5185m	>20	2	2	---
Fuel		WC Method	>2.1	<1.0	<1.0	---
Water		WC Method	>0.21	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.8	0.9	---
Nitration	Abs/cm	*ASTM D7624	>20	8.4	9.5	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.8	21.7	---
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	0	0	---
Boron	ppm	ASTM D5185m		266	74	---
Barium	ppm	ASTM D5185m		3	0	---
Molybdenum	ppm	ASTM D5185m		260	86	---
Manganese	ppm	ASTM D5185m		<1	<1	---
Magnesium	ppm	ASTM D5185m		779	161	---
Calcium	ppm	ASTM D5185m		1552	2196	---
Phosphorus	ppm	ASTM D5185m		899	1029	---
Zinc	ppm	ASTM D5185m		1135	1268	---
Sulfur	ppm	ASTM D5185m		3180	3493	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	15.5	14.9	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	8.7	8.6	---
Visc @ 100°C	cSt	ASTM D445	15.4	15.0	14.5	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0165854 **Received** : 12 Jan 2024
Lab Number : 06059132 **Diagnosed** : 12 Jan 2024
Unique Number : 10830514 **Diagnostician** : Wes Davis
Test Package : CONST (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 - ELIZABETH CITY
 129 KNOBBS CREEK DR
 ELIZABETH CITY, NC
 US 27909

Contact: CHARLES PARKER
 charles.parker@jamesriverequipment.com

T: (252)333-2280

F: