



WEAR	NORMAL
CONTAMINATION	NORMAL
FLUID CONDITION	NORMAL

Machine Id
JOHN DEERE 317G 1T0317GJHNJ421307

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		JR0205312	JR0188769	---
Sample Date		Client Info		18 Mar 2024	19 Sep 2023	---
Machine Age	hrs	Client Info		658	530	---
Oil Age	hrs	Client Info		0	530	---
Filter Age	hrs	Client Info		0	0	---
Oil Changed		Client Info		N/A	Changed	---
Filter Changed		Client Info		N/A	Changed	---
Sample Status				NORMAL	ABNORMAL	---

WEAR

All component wear rates are normal.

Iron	ppm	ASTM D5185m	>51	20	42	---
Chromium	ppm	ASTM D5185m	>11	0	1	---
Nickel	ppm	ASTM D5185m	>5	0	<1	---
Titanium	ppm	ASTM D5185m		0	0	---
Silver	ppm	ASTM D5185m	>3	0	0	---
Aluminum	ppm	ASTM D5185m	>31	6	11	---
Lead	ppm	ASTM D5185m	>26	0	3	---
Copper	ppm	ASTM D5185m	>26	12	46	---
Tin	ppm	ASTM D5185m	>4	0	<1	---
Vanadium	ppm	ASTM D5185m		0	0	---
White Metal	scalar	*Visual	NONE	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	---

CONTAMINATION

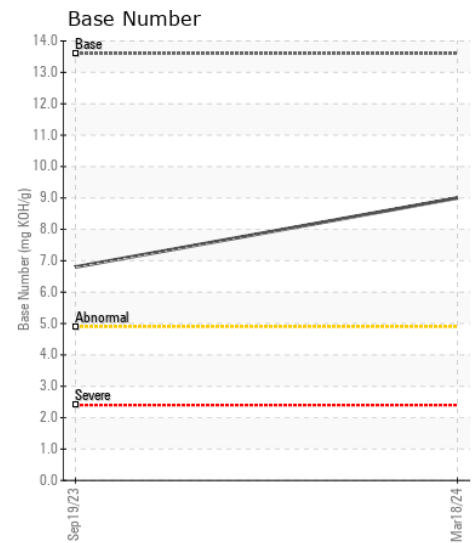
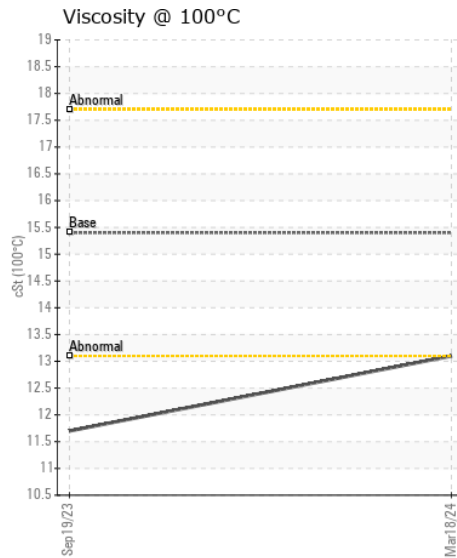
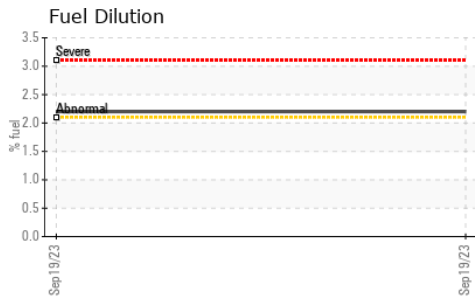
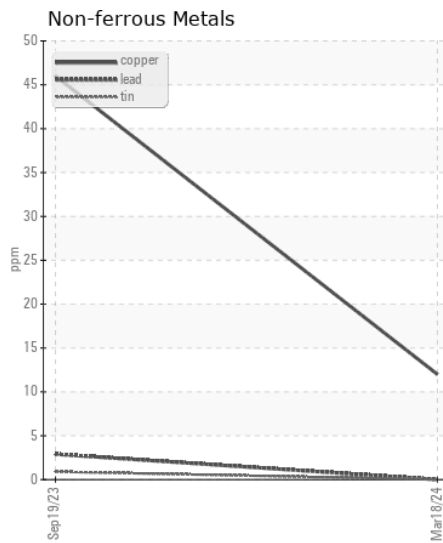
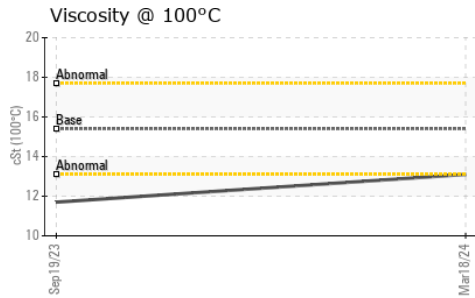
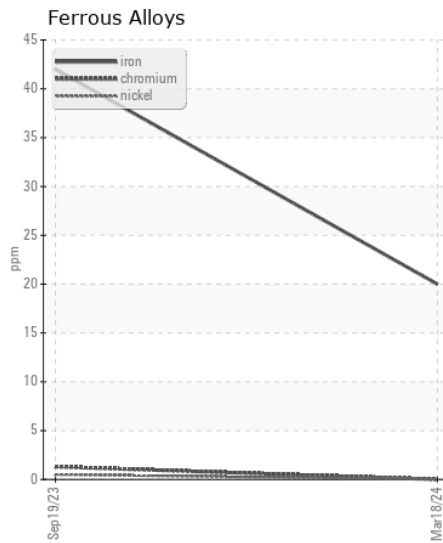
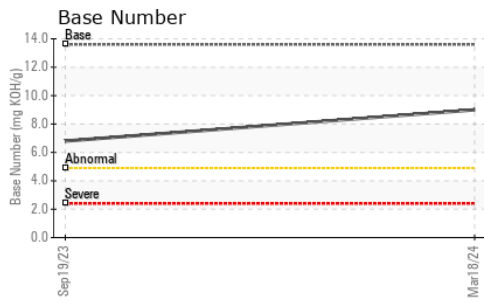
There is no indication of any contamination in the oil.

Silicon	ppm	ASTM D5185m	>22	15	36	---
Potassium	ppm	ASTM D5185m	>20	0	2	---
Fuel	%	ASTM D3524	>2.1	<1.0	▲ 2.2	---
Water		WC Method	>0.21	NEG	NEG	---
Glycol		WC Method		NEG	NEG	---
Soot %	%	*ASTM D7844	>3	0.3	0.5	---
Nitration	Abs/cm	*ASTM D7624	>20	8.4	9.6	---
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.9	26.3	---
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	3	15	---
Boron	ppm	ASTM D5185m		220	168	---
Barium	ppm	ASTM D5185m		<1	6	---
Molybdenum	ppm	ASTM D5185m		243	255	---
Manganese	ppm	ASTM D5185m		0	1	---
Magnesium	ppm	ASTM D5185m		820	744	---
Calcium	ppm	ASTM D5185m		1479	1771	---
Phosphorus	ppm	ASTM D5185m		910	852	---
Zinc	ppm	ASTM D5185m		1050	1081	---
Sulfur	ppm	ASTM D5185m		3523	3219	---
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.5	23.3	---
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	9.0	6.8	---
Visc @ 100°C	cSt	ASTM D445	15.4	13.1	▲ 11.7	---



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : JR0205312

Lab Number : 06122073

Unique Number : 10936224

Test Package : CONST (Additional Tests: PercentFuel, TBN)

Received : 19 Mar 2024

Tested : 21 Mar 2024

Diagnosed : 21 Mar 2024 - Jonathan Hester

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 - GREENSBORO

411 SOUTH REGIONAL ROAD

GREENSBORO, NC

US 27409

Contact: NICK GALLAHER

NGALLAHER@JRENET.COM

T: (336)668-2762

F: (336)665-9556