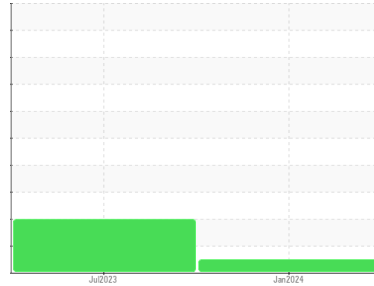


OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL


Area

[W49170]

Machine Id

JOHN DEERE 318G 1T0318GKCNJ425763

Component

Diesel Engine

Fluid

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)
DIAGNOSIS
Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

Metal levels are typical for a new component breaking in.

Contamination

Fuel content negligible. There is no indication of any contamination in the oil.

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.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		JR0200144	JR0164964	---
Sample Date	Client Info		15 Jan 2024	18 Jul 2023	---
Machine Age	hrs	Client Info	943	471	---
Oil Age	hrs	Client Info	0	0	---
Oil Changed	Client Info		Changed	Changed	---
Sample Status			NORMAL	ABNORMAL	---

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>51	31	40
Chromium	ppm	ASTM D5185m	>11	<1	1
Nickel	ppm	ASTM D5185m	>5	<1	<1
Titanium	ppm	ASTM D5185m		0	0
Silver	ppm	ASTM D5185m	>3	0	0
Aluminum	ppm	ASTM D5185m	>31	6	6
Lead	ppm	ASTM D5185m	>26	2	4
Copper	ppm	ASTM D5185m	>26	22	81
Tin	ppm	ASTM D5185m	>4	<1	<1
Vanadium	ppm	ASTM D5185m		<1	<1
Cadmium	ppm	ASTM D5185m		0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		180	214
Barium	ppm	ASTM D5185m		0	0
Molybdenum	ppm	ASTM D5185m		249	257
Manganese	ppm	ASTM D5185m		<1	2
Magnesium	ppm	ASTM D5185m		825	770
Calcium	ppm	ASTM D5185m		1560	1877
Phosphorus	ppm	ASTM D5185m		817	865
Zinc	ppm	ASTM D5185m		1093	1105
Sulfur	ppm	ASTM D5185m		3005	3897

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>22	20	52
Sodium	ppm	ASTM D5185m	>31	4	15
Potassium	ppm	ASTM D5185m	>20	<1	3
Fuel	%	ASTM D3524	>2.1	0.9	3.5

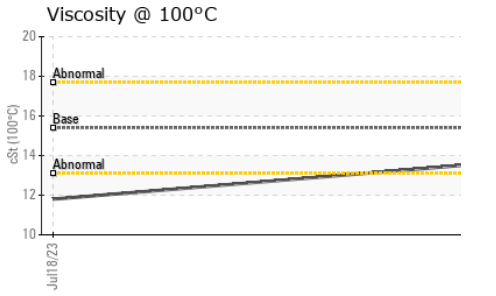
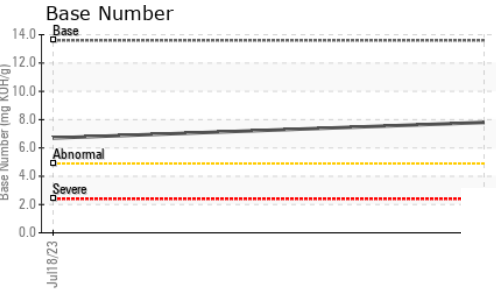
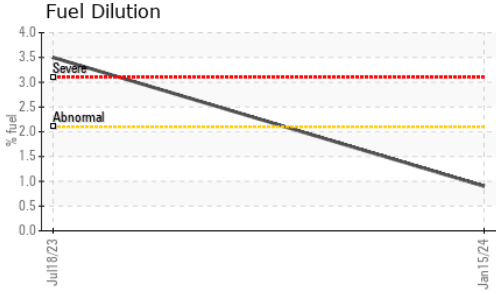
INFRA-RED

	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5	0.4
Nitration	Abs/cm	*ASTM D7624	>20	9.9	9.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	24.8	26.5

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	21.2	24.2
Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.8	6.7

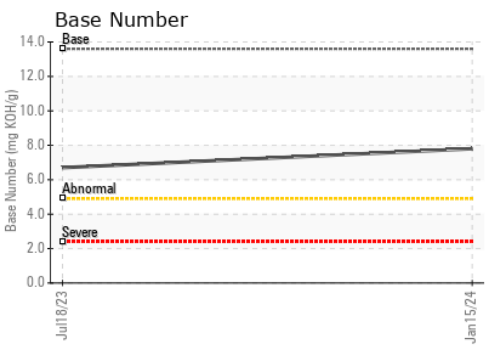
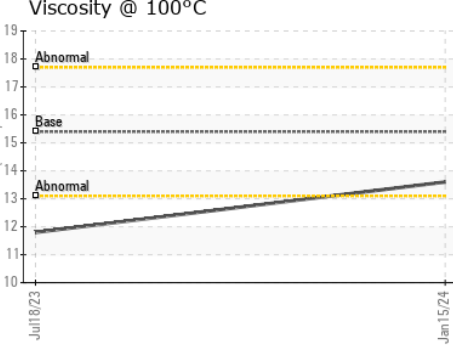
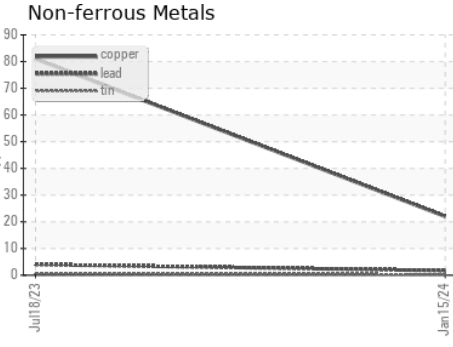
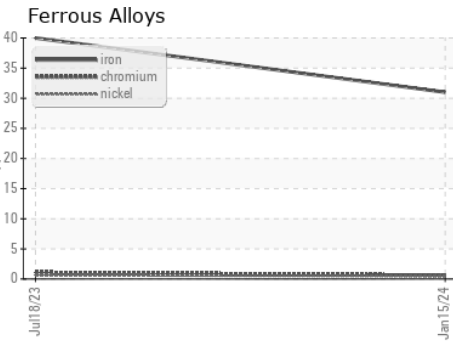
OIL ANALYSIS REPORT



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	15.4	13.6	▲ 11.8	---

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : JR0200144 **Received** : 17 Jan 2024
Lab Number : **06062516** **Diagnosed** : 19 Jan 2024
Unique Number : 10833898 **Diagnostician** : Wes Davis
Test Package : CONST (Additional Tests: PercentFuel, 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)

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