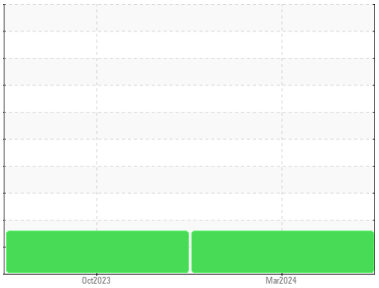
OIL ANALYSIS REPORT

OIL DIAGNOSTICS

Area
Wamble
Machine Id
JOHN DEERE 644P 244 (S/N 1DW644PAANLZ15485)
Component
Rear Differential
Fluid
JOHN DEERE HY-GARD HYD/TRANS (6 GAL)

Sample Rating Trend



WEAR

DIAGNOSIS

Recommendation
The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear
Bearing and/or bushing wear is indicated.

Contamination
There is no indication of any contamination in the oil.

Fluid Condition
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**PCA0105136**	PCA0096410	---
Sample Date		Client Info		**12 Mar 2024**	04 Oct 2023	---
Machine Age	hrs	Client Info		**3855**	2000	---
Oil Age	hrs	Client Info		**1855**	2000	---
Oil Changed		Client Info		**Changed**	Changed	---
Sample Status				**ABNORMAL**	ABNORMAL	---

CONTAMINATION		method	limit/base	current	history1	history2
Water		WC Method	>.2	**NEG**	NEG	---

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	**67**	36	---
Chromium	ppm	ASTM D5185m	>10	**<1**	0	---
Nickel	ppm	ASTM D5185m	>10	**<1**	<1	---
Titanium	ppm	ASTM D5185m		**<1**	0	---
Silver	ppm	ASTM D5185m		**<1**	<1	---
Aluminum	ppm	ASTM D5185m	>25	**1**	<1	---
Lead	ppm	ASTM D5185m	>25	▲ **73**	▲ 47	---
Copper	ppm	ASTM D5185m	>100	▲ **114**	▲ 82	---
Tin	ppm	ASTM D5185m	>10	**6**	6	---
Vanadium	ppm	ASTM D5185m		**<1**	0	---
Cadmium	ppm	ASTM D5185m		**<1**	0	---

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	**14**	5	---
Barium	ppm	ASTM D5185m	0	**<1**	0	---
Molybdenum	ppm	ASTM D5185m	0	**<1**	0	---
Manganese	ppm	ASTM D5185m		**2**	<1	---
Magnesium	ppm	ASTM D5185m	145	**91**	97	---
Calcium	ppm	ASTM D5185m	3570	**3168**	3194	---
Phosphorus	ppm	ASTM D5185m	1290	**1172**	1078	---
Zinc	ppm	ASTM D5185m	1640	**1253**	1243	---
Sulfur	ppm	ASTM D5185m		**4191**	3544	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	**9**	7	---
Sodium	ppm	ASTM D5185m		**5**	<1	---
Potassium	ppm	ASTM D5185m	>20	**3**	1	---

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.8	**1.02**	---	---

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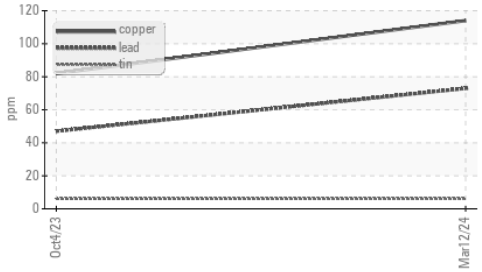
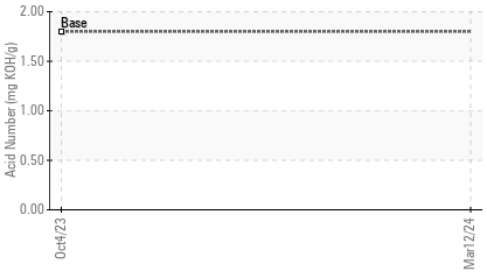
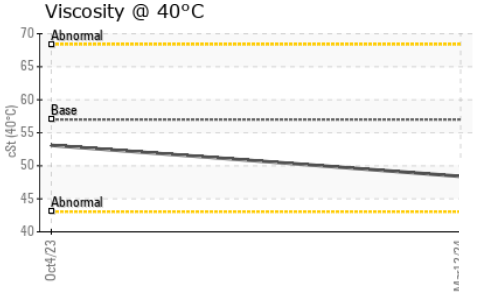
Non-ferrous Metals



Acid Number



Viscosity @ 40°C



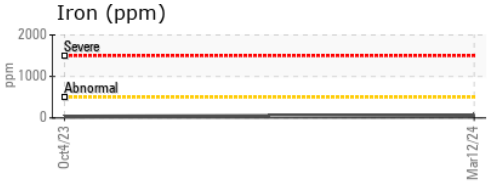
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	---
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	---
Silt	scalar	*Visual	NONE	**NONE**	NONE	---
Debris	scalar	*Visual	NONE	**NONE**	NONE	---
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	---
Appearance	scalar	*Visual	NORML	**NORML**	NORML	---
Odor	scalar	*Visual	NORML	**NORML**	NORML	---
Emulsified Water	scalar	*Visual	>.2	**NEG**	NEG	---
Free Water	scalar	*Visual		**NEG**	NEG	---

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	57.0	**48.4**	53.1	---

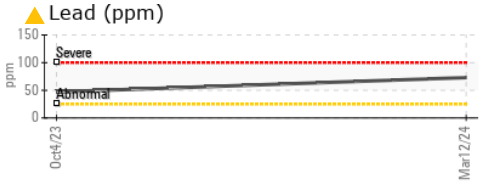
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color			*no image*	*no image*	*no image*
Bottom			*no image*	*no image*	*no image*

GRAPHS

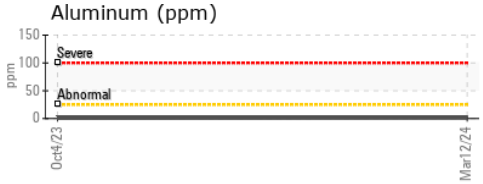
Iron (ppm)



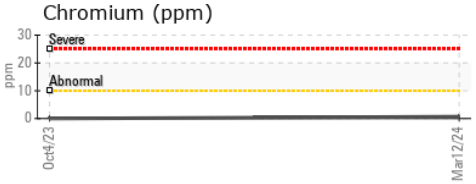
Lead (ppm)



Aluminum (ppm)

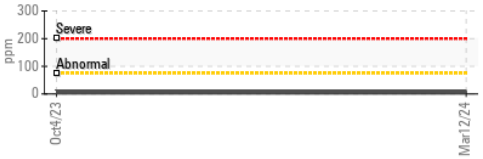


Chromium (ppm)

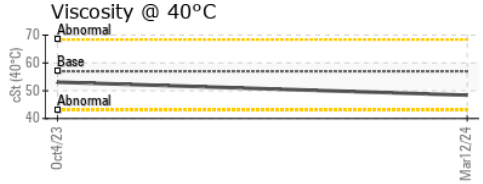


Copper (ppm)

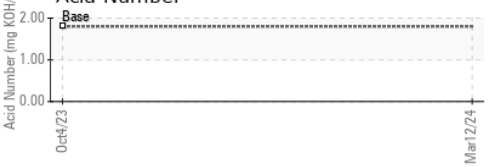
Silicon (ppm)



Viscosity @ 40°C



Acid Number



ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PCA0105136
Lab Number : 06120283
Unique Number : 10929116
Test Package : MOB 2

Received : 15 Mar 2024
Tested : 18 Mar 2024
Diagnosed : 19 Mar 2024 - Don Baldridge

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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