

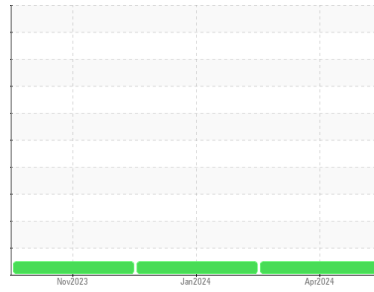


# OIL ANALYSIS REPORT



Machine Id  
**JOHN DEERE 770GP - ADAMS 32163 (S/N 1DW770GPPLF707393)**  
 Component  
**Diesel Engine**  
 Fluid  
**AMERIGUARD 10W30 (30 QTS)**

## Sample Rating Trend



**NORMAL**



### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

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			<b>SBP0006754</b>	SBP0006403	SBP0005812
Sample Date	Client Info			<b>08 Apr 2024</b>	30 Jan 2024	01 Nov 2023
Machine Age	hrs	Client Info		<b>2894</b>	2639	2316
Oil Age	hrs	Client Info		<b>255</b>	323	265
Oil Changed	Client Info			<b>Changed</b>	Changed	Changed
Sample Status				<b>NORMAL</b>	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Fuel	WC Method	>2.1	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Water	WC Method	>0.21	<b>NEG</b>	NEG	NEG	NEG
Glycol	WC Method		<b>NEG</b>	NEG	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>51	<b>8</b>	11	9
Chromium	ppm	ASTM D5185m	>11	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m	>5	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m		<b>0</b>	0	0
Silver	ppm	ASTM D5185m	>3	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	>31	<b>1</b>	1	2
Lead	ppm	ASTM D5185m	>26	<b>0</b>	<1	0
Copper	ppm	ASTM D5185m	>26	<b>&lt;1</b>	1	1
Tin	ppm	ASTM D5185m	>4	<b>&lt;1</b>	<1	<1
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m		<b>0</b>	0	0

ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<b>16</b>	25	9
Barium	ppm	ASTM D5185m		<b>0</b>	16	0
Molybdenum	ppm	ASTM D5185m		<b>60</b>	46	56
Manganese	ppm	ASTM D5185m		<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m		<b>989</b>	717	906
Calcium	ppm	ASTM D5185m		<b>1199</b>	1334	1201
Phosphorus	ppm	ASTM D5185m		<b>1108</b>	878	1015
Zinc	ppm	ASTM D5185m		<b>1303</b>	1059	1243
Sulfur	ppm	ASTM D5185m		<b>3790</b>	2810	3056

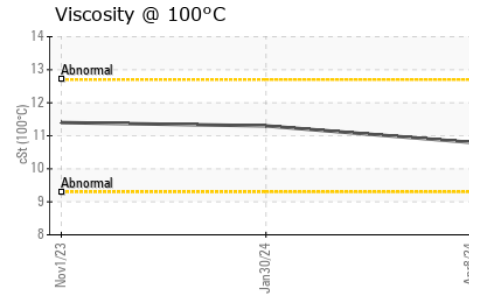
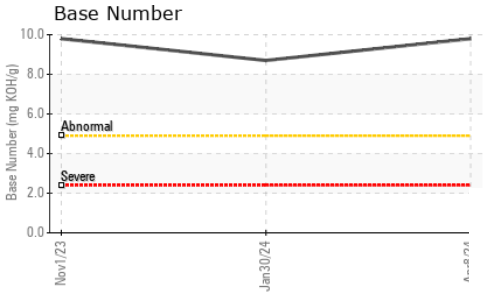
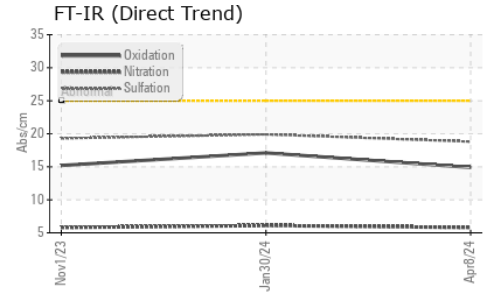
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>22	<b>3</b>	3	3
Sodium	ppm	ASTM D5185m	>31	<b>&lt;1</b>	2	2
Potassium	ppm	ASTM D5185m	>20	<b>0</b>	0	0

INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	<b>0.2</b>	0.2	0.2
Nitration	Abs/cm	*ASTM D7624	>20	<b>5.8</b>	6.1	5.8
Sulfation	Abs/.1mm	*ASTM D7415	>30	<b>18.8</b>	19.9	19.3

FLUID DEGRADATION		method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	<b>14.9</b>	17.1	15.2
Base Number (BN)	mg KOH/g	ASTM D2896		<b>9.8</b>	8.7	9.8



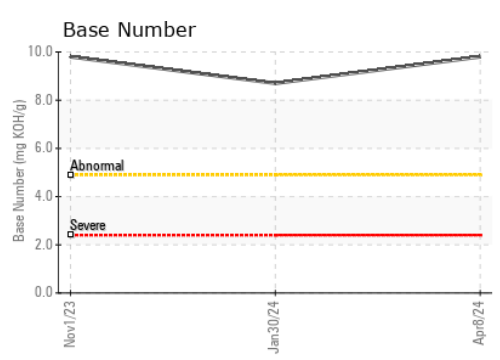
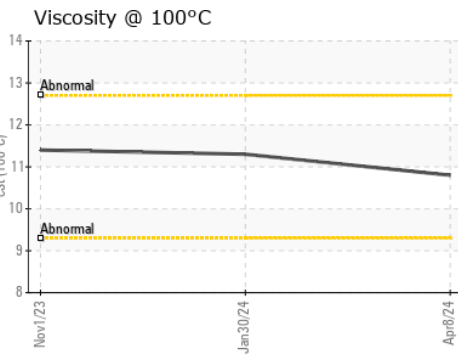
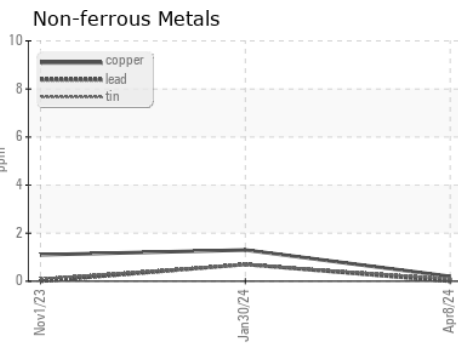
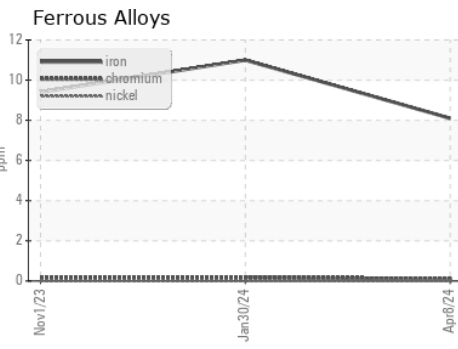
# OIL ANALYSIS REPORT



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	>0.21	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	10.8	11.3	11.4

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : SBP0006754  
**Lab Number** : 06149344  
**Unique Number** : 10979422  
**Test Package** : FLEET  
**Received** : 15 Apr 2024  
**Tested** : 16 Apr 2024  
**Diagnosed** : 16 Apr 2024 - Wes Davis

**GAGE COUNTY HIGHWAY DEPARTMENT**  
 823 SOUTH 8TH ST  
 BEATRICE, NE  
 US 68310  
 Contact: MARK KUHNKE  
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 T: (402)223-1395  
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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)