

# **OIL ANALYSIS REPORT**

Sample Rating Trend

**WEAR** 



## JOHN DEERE 670G 106 Component Diesel Engine

Fluid DEZOL 15W40 (--- GAL)

### DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

## 🔺 Wear

The copper level is abnormal. Cylinder, crank, or cam shaft wear is indicated. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core).

#### Contamination

There is no indication of any contamination in the oil.

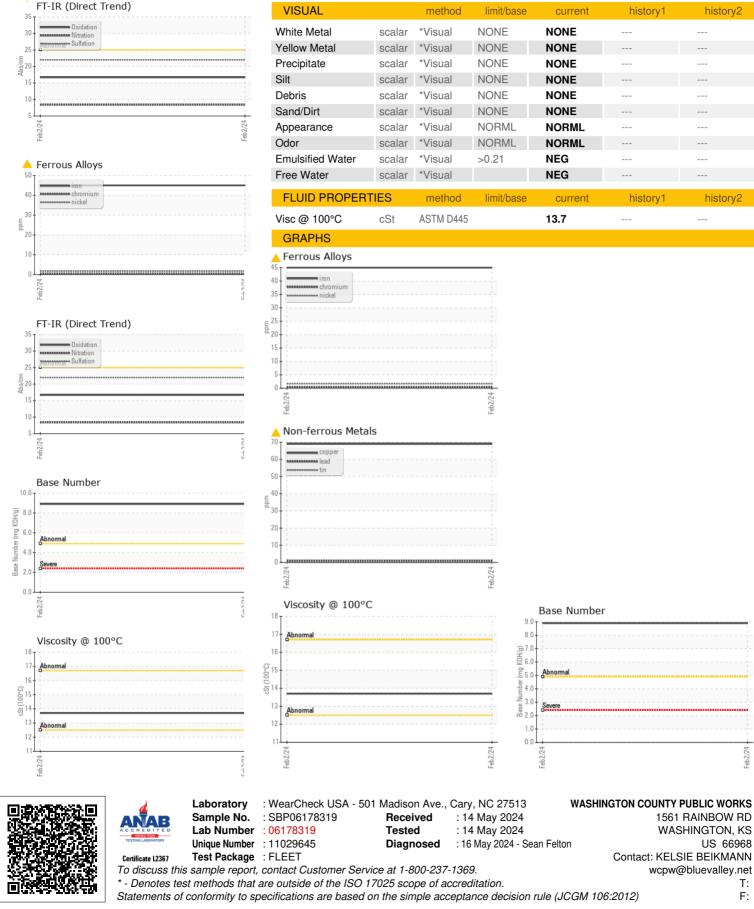
### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

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.)				Feb2024		
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		SBP06178319		
Sample Date		Client Info		02 Feb 2024		
/lachine Age	hrs	Client Info		8500		
Dil Age	hrs	Client Info		560		
Dil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATION	١	method	limit/base	current	history1	history2
uel		WC Method	>2.1	<1.0		
Vater		WC Method	>0.21	NEG		
Glycol		WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
	nnm		>51	▲ 45		
ron	ppm	ASTM D5185m				
Chromium	ppm	ASTM D5185m	>11	<1 2		
	ppm	ASTM D5185m	>5	2		
Titanium	ppm	ASTM D5185m	. 0	1		
Silver	ppm	ASTM D5185m		0		
Numinum	ppm	ASTM D5185m	>31	5		
ead	ppm	ASTM D5185m	>26	<1		
Copper	ppm	ASTM D5185m	>26	<u> </u>		
īn 	ppm	ASTM D5185m	>4	0		
/anadium	ppm	ASTM D5185m		<1		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		198		
Barium	ppm	ASTM D5185m		0		
/lolybdenum	ppm	ASTM D5185m		236		
langanese	ppm	ASTM D5185m		<1		
lagnesium	ppm	ASTM D5185m		871		
Calcium	ppm	ASTM D5185m		1542		
hosphorus	ppm	ASTM D5185m		922		
Zinc	ppm	ASTM D5185m		1105		
Sulfur	ppm	ASTM D5185m		3372		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>22	8		
Sodium	ppm	ASTM D5185m	>31	14		
Potassium	ppm	ASTM D5185m	>20	2		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.5		
Vitration	Abs/cm	*ASTM D7624	>20	8.4		
Sulfation	Abs/.1mm	*ASTM D7415	>30	22.0		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Dxidation	Abs/.1mm	*ASTM D7414	>25	16.7		
Base Number (BN)	mg KOH/g	ASTM D2896		8.9		
	ing toring	DECOU		0.0		



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Contact/Location: KELSIE BEIKMANN - WASWASUS