

# **OIL ANALYSIS REPORT**

Sample Rating Trend



**VISUAL METAL** 



Machine Id JOHN DEERE 300DII 513 - 2ND AXLE (\$/N 1DW300DXJFE667370) Component Left Differential Fluid JOHN DEERE GL-5 80W90 (--- GAL)

# DIAGNOSIS

#### Recommendation

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition.

## 🔺 Wear

Moderate concentration of visible metal present. All component wear rates are normal.

### Contamination

There is no indication of any contamination in the oil.

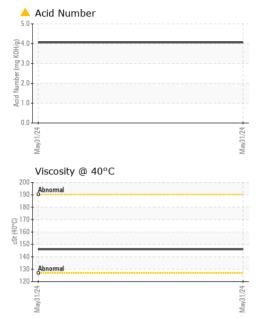
### Fluid Condition

The AN level is at the top-end of the recommended limit.

SAMPLE INFORM	<b>/IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0960433		
Sample Date		Client Info		31 May 2024		
Machine Age	hrs	Client Info		7801		
Oil Age	hrs	Client Info		3149		
Oil Changed		Client Info		Changed		
Sample Status				ABNORMAL		
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>.2	NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>500	28		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>10	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>25	3		
Lead	ppm	ASTM D5185m	>25	0		
Copper	ppm	ASTM D5185m	>100	5		
Tin	ppm	ASTM D5185m	>10	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		<1		
Calcium	ppm	ASTM D5185m		0		
Phosphorus	ppm	ASTM D5185m		2399		
Zinc	ppm	ASTM D5185m		6		
Sulfur	ppm	ASTM D5185m		27138		
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	7		
Sodium	ppm	ASTM D5185m		1		
Potassium	ppm	ASTM D5185m	>20	<1		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>4.06</b>		



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	VISUAL		method	limit/base	current	history1	history2
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE			
	Precipitate	scalar	*Visual	NONE	NONE		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	LIGHT		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
1/24 -	Appearance	scalar	*Visual	NORML	NORML		
May31/24	Odor	scalar	*Visual	NORML	NORML		
C	Emulsified Water	scalar	*Visual	>.2	NEG		
	Free Water	scalar	*Visual		NEG		
	FLUID PROPERT		method	limit/base	current	history1	history2
				mmubase			THStory 2
	Visc @ 40°C	cSt	ASTM D445		146		
	SAMPLE IMAGES	S	method	limit/base	current	history1	history2
May31/24	Color				no image	no image	no image
	Bottom				no image	no image	no image
	GRAPHS Iron (ppm) 2000 400			47/15/eew 47/15/eew	Abnormal Abnormal HZTIEGEW Chromium (ppm) Severe Abnormal HZTIEGEW Silicon (ppm)		
	Abnormal Abnormal Viscosity @ 40°C 200 Abnormal Viscosity @ 40°C				Acid Number	nper	
Laboratory Sample No. Lab Number	: WearCheck USA - 50" : WC0960433	1 Madisc Rece Teste	ived : 15	7, NC 27513 5 Jul 2024	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		BIG 4 INC D1 WORTH ST HEMPHILL, TX
Certificate L2367 Test Package To discuss this sample report * - Denotes test methods that Statements of conformity to sp	: 11125836 : MOB 2 , contact Customer Servi are outside of the ISO 1	Contact: J jodie.mcgee T:	US 75948 IODIE MCGEE @big4inc.com (936)275-7532 (409)787-2071				

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