

OIL ANALYSIS REPORT

Sample Rating Trend





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

DIAGNOSIS

Recommendation

The oil change at the time of sampling has been noted. 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 AN level is above the recommended limit.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0960431		
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	35		
Chromium	ppm	ASTM D5185m	>10	<1		
Nickel	ppm	ASTM D5185m	>10	<1		
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	16		
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		3		
Manganese	ppm	ASTM D5185m		<1		
Magnesium	ppm	ASTM D5185m		<1		
Calcium	ppm	ASTM D5185m		0		
Phosphorus	ppm	ASTM D5185m		2313		
Zinc	ppm	ASTM D5185m		25		
Sulfur	ppm	ASTM D5185m		27327		
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>75	3		
Sodium	ppm	ASTM D5185m		2		
Potassium	ppm	ASTM D5185m	>20	<1		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		4.42		



OIL ANALYSIS REPORT

method

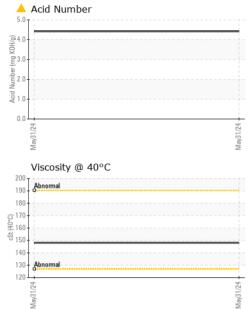
limit/base

current

historv1

history2

VISUAL



· · · · · · · · · · · · · · · · · · ·	VISUAL		method	limit/base	current	history1	history2
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	LIGHT		
	Precipitate	scalar	*Visual	NONE	NONE		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	LIGHT		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
May31/24	Appearance	scalar	*Visual	NORML	NORML		
May3	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>.2	NEG		
	Free Water	scalar	*Visual		NEG		
	FLUID PROPERT	IFS	method	limit/base	current	history1	history2
				mmubase		Thistory	THSTOLYZ
	Visc @ 40°C	cSt	ASTM D445		148		
	SAMPLE IMAGES	6	method	limit/base	current	history1	history2
May31/24 +	Color				no image	no image	no image
	Bottom				no image	no image	no image
	Iron (ppm)			15 H2/1C/leW 3	Abnormal +2/10/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2/2	ppm)	
	udd 50 + Abnormal			May31/24			
	Copper (ppm)			30	Silicon (ppm)		
	200 a 100 hoormal			<u>ال</u> ال	0		
	Viscosity @ 40°C			May31/24	May31/24		
	2 150 Abnormal			1/24 Acid Number (mg KOH/g)	.0		R
	May31/24			May31/24 Aci	May31/24		4015.eM
Laboratory Sample No. Lab Number Unique Number Test Package o discuss this sample report - Denotes test methods that	: 11125844 : MOB 2 t, contact Customer Servio	Rece Teste Diagi ce at 1-8 7025 sco	ived : 15 ed : 18 nosed : 18 800-237-1369 ope of accred	5 Jul 2024 3 Jul 2024 Jul 2024 - Jona 9. <i>litation.</i>		Contact: jodie.mcgee T:	BIG 4 IN 01 WORTH S HEMPHILL, T US 7594 JODIE MCGEI @big4inc.cor (936)275-753 (409)787-207

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