

# **OIL ANALYSIS REPORT**



#### Machine Id L-444 Component Front Differential Fluid JOHN DEERE HY-GARD HYD/TRANS (--- GAL)

#### DIAGNOSIS

## Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

## Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

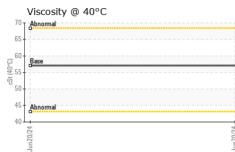
#### Fluid Condition

The condition of the oil is acceptable for the time in service.

SAMPLE INFORM	1ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0900372		
Sample Date		Client Info		20 Jun 2024		
Machine Age	hrs	Client Info		1293		
Oil Age	hrs	Client Info		506		
Oil Changed		Client Info		Not Changd		
Sample Status				NORMAL		
CONTAMINATION		method	limit/base	current	history1	history2
Water	N	WC Method		NEG		
WEAR METALS		method	limit/base	current	history1	history2
Iron Obre mission	ppm	ASTM D5185m		70		
Chromium	ppm	ASTM D5185m		<1		
Nickel	ppm	ASTM D5185m	>10	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m	05	0		
Aluminum	ppm	ASTM D5185m		2		
Lead	ppm	ASTM D5185m	>25	3		
Copper	ppm	ASTM D5185m	>100	10		
Tin	ppm	ASTM D5185m	>10	<1		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	6	1		
Barium	ppm	ASTM D5185m	0	0		
Molybdenum	ppm	ASTM D5185m	0	0		
Manganese	ppm	ASTM D5185m		3		
Magnesium	ppm	ASTM D5185m	145	101		
Calcium	ppm	ASTM D5185m	3570	3490		
Phosphorus	ppm	ASTM D5185m	1290	1129		
Zinc	ppm	ASTM D5185m	1640			
Sulfur			1040	1312		
	ppm	ASTM D5185m	1040	1312 3825		
CONTAMINANTS	ppm		limit/base	-		
CONTAMINANTS Silicon	ppm ppm	ASTM D5185m		3825		
		ASTM D5185m method	limit/base	3825 current	 history1	
Silicon	ppm	ASTM D5185m method ASTM D5185m	limit/base	3825 current 7	 history1	
Silicon Sodium	ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m	limit/base	3825 current 7 <1	 history1	
Silicon Sodium Potassium	ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	limit/base >75 >20	3825 current 7 <1 2	 history1  	 history2  
Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method	limit/base >75 >20 limit/base	3825 current 7 <1 2 current	 history1   history1	history2   history2
Silicon Sodium Potassium VISUAL White Metal	ppm ppm ppm scalar	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m method *Visual	limit/base >75 >20 limit/base NONE	3825 current 7 <1 2 current NONE	 history1   history1	history2   history2 
Silicon Sodium Potassium VISUAL White Metal Yellow Metal	ppm ppm ppm scalar scalar	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual	limit/base >75 >20 limit/base NONE NONE	3825 current 7 <1 2 current NONE NONE	 history1   history1 	 history2   history2 
Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate	ppm ppm ppm scalar scalar scalar	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual	limit/base >75 >20 limit/base NONE NONE NONE	3825 current 7 <1 2 current NONE NONE NONE	 history1   history1  	 history2   history2  
Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris	ppm ppm ppm scalar scalar scalar scalar	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual	limit/base >75 >20 limit/base NONE NONE NONE NONE	3825 current 7 <1 2 current NONE NONE NONE MODER	 history1   history1  	 history2  history2  
Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt	ppm ppm ppm scalar scalar scalar scalar scalar	ASTM D5185m method ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual	limit/base >75 >20 limit/base NONE NONE NONE NONE NONE	3825 current 7 <1 2 current NONE NONE NONE NONE NONE NONE	 history1   history1   	 history2  history2   
Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m method ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	limit/base >75 >20 limit/base NONE NONE NONE NONE NONE NONE NONE NON	3825 current 7 <1 2 current NONE NONE NONE NONE NONE NONE NONE NONE NONE	 history1   history1      	+ history2   history2     
Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance Odor	ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	limit/base >75 >20 limit/base NONE NONE NONE NONE NONE NONE NONE NON	3825 current 7 <1 2 current NONE NONE NONE NONE NONE NONE NONE NONE NONE NONE	 history1   history1       	 history2   history2       
Silicon Sodium Potassium VISUAL White Metal Yellow Metal Precipitate Silt Debris Sand/Dirt Appearance	ppm ppm ppm scalar scalar scalar scalar scalar scalar scalar	ASTM D5185m method ASTM D5185m ASTM D5185m *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual *Visual	limit/base >75 >20 limit/base NONE NONE NONE NONE NONE NONE NONE NON	3825 current 7 <1 2 current NONE NONE NONE NONE NONE NONE NONE NONE NONE	 history1   history1        -	 history2   history2        -



# **OIL ANALYSIS REPORT**



FLUID PROPER	RTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	57.0	57.1		
SAMPLE IMAGI	ES	method	limit/base	current	history1	history2
Color				no image	no image	no image
ottom				no image	no image	no image
GRAPHS						
Ferrous Alloys						
60 - iron						
50						
40 -						
30-						
20-10-						
Jun20/24			Jun20/24			
弓 Non-ferrous Met	als		٦٢			
10 9 copper						
8 - tin						
6						
£ 5- 4-						
3			****			
2						
0/24/0						
Jun20/24			Jun20/24			
Viscosity @ 40°C	C					
65						
60						
ට <b>Base</b> 9 55 - දි						
중 50						
45						
40 Abnormal						
Jun20/24			Jun20/24			
h			Jun			
: WearCheck USA - 5	501 Madiso	n Ave., Cary	, NC 27513		DI	JKE LAZZAR
: WC0900372	Recei	ived : 2	5 Jun 2024		4201 FAY	ETTEVILLE RI
· 06220107	Toeto	d • ?	5. lun 2024			BALFIGH NO
: 06220107 : 11098304 : CONST	Teste Diagr		6 Jun 2024 6 Jun 2024 - W	les Davis	<b>•</b> · · <b>-</b> ·	RALEIGH, NO US 2760 NDON BYRUN

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)

Certificate L2367

Contact/Location: BRANDON BYRUM - DUKRAL

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