

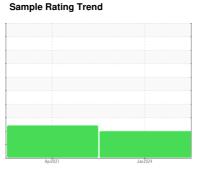
## **OIL ANALYSIS REPORT**

# W20726-WINDY HILL] Machine Id JOHN DEERE 3520 1LV3520HJDH910183

Component

**Hydraulic System** 

JOHN DEERE HY-GARD HYD/TRANS LOW VIS (--- GAL)





### DIAGNOSIS

#### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

#### Wear

The iron level is abnormal. All other metal levels are typical for a new component breaking in.

#### Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

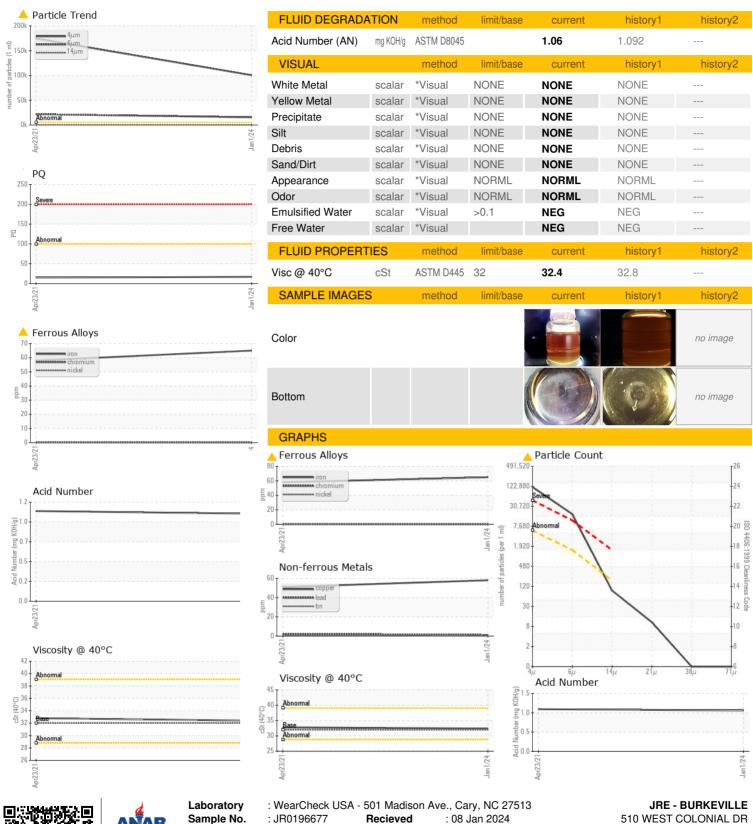
#### **Fluid Condition**

The AN level is acceptable for this fluid. The condition of the oils additive package is suitable for further service.

VIS ( GAL)			Apr2021	Jan 2024		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		JR0196677	JR0085270	
Sample Date		Client Info		01 Jan 2024	23 Apr 2021	
Machine Age	hrs	Client Info		79	44	
Oil Age	hrs	Client Info		79	44	
Oil Changed		Client Info		Not Changd	Not Changd	
Sample Status				ABNORMAL	ABNORMAL	
CONTAMINATION	V	method	limit/base	current	history1	history2
Water		WC Method	>0.1	NEG	NEG	
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		17	15	
Iron	ppm	ASTM D5185m	>20	<u>^</u> 65	<u></u> 58	
Chromium	ppm	ASTM D5185m	>10	0	<1	
Nickel	ppm	ASTM D5185m	>10	0	0	
Titanium	ppm	ASTM D5185m		0	<1	
Silver	ppm	ASTM D5185m		1	3	
Aluminum	ppm	ASTM D5185m	>10	0	2	
Lead	ppm	ASTM D5185m	>10	1	2	
Copper	ppm	ASTM D5185m	>75	58	51	
Tin	ppm	ASTM D5185m	>10	0	<1	
Antimony	ppm	ASTM D5185m			<1	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	<1	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1	6	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		0	<1	
Manganese	ppm	ASTM D5185m		<1	2	
Magnesium	ppm	ASTM D5185m		85	98	
Calcium	ppm	ASTM D5185m		3206	3505	
Phosphorus	ppm	ASTM D5185m		1033	1043	
Zinc	ppm	ASTM D5185m		1207	1305	
Sulfur	ppm	ASTM D5185m		3591	3329	
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>20	5	7	
Sodium	ppm	ASTM D5185m		6	5	
Potassium	ppm	ASTM D5185m	>20	2	3	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<u></u> 100344	<u>▲</u> 174324	
Particles >6µm		ASTM D7647	>1300	<u> </u>	<u>^</u> 21768	
Particles >14µm		ASTM D7647	>160	80	<b>▲</b> 192	
Particles >21µm		ASTM D7647	>40	9	<u>▲</u> 52	
Particles >38µm		ASTM D7647	>10	0	6	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>4</u> 24/21/13	<b>△</b> 25/22/15	



## OIL ANALYSIS REPORT





Certificate L2367

Sample No. Lab Number **Unique Number** 

: JR0196677 . 06054740 : 10820689

Recieved Diagnosed

: 10 Jan 2024 Diagnostician : Don Baldridge Test Package : CONST ( Additional Tests: PQ )

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) BURKEVILLE, VA US 23922

Contact: BRANDON BOLLING bbolling@jamesriverequipment.com

T: (434)767-5578 F: (434)767-3774