

# **OIL ANALYSIS REPORT**

## Sample Rating Trend



Machine Id

# **JOHN DEERE 345G 1FF345GXTMF020937**

Hydraulic System

HITACHI HYDRAULIC SUPER EX 46HN (---

#### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

### **Fluid Condition**

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

GAL)		Feb	2023	Jun2023 May20	124	
SAMPLE INFORI	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		JR0200426	JR0165462	JR0148169
Sample Date		Client Info		29 May 2024	05 Jun 2023	21 Feb 2023
Machine Age	hrs	Client Info		1670	963	507
Oil Age	hrs	Client Info		1670	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				NORMAL	NORMAL	ATTENTION
CONTAMINATIO	N	method	limit/base	current	history1	history2
Water		WC Method	>0.075	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>50	17	14	9
Iron	ppm	ASTM D5185m	>32	3	3	<1
Chromium	ppm	ASTM D5185m	>9	<1	0	0
Nickel	ppm	ASTM D5185m	>5	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>9	<1	0	0
Lead	ppm	ASTM D5185m	>28	<1	0	0
Copper	ppm	ASTM D5185m	>50	2	2	<1
Tin	ppm	ASTM D5185m	>5	<1	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		<1	0	3
Calcium	ppm	ASTM D5185m		3	<1	2
Phosphorus	ppm	ASTM D5185m	827	546	587	493
Zinc	ppm	ASTM D5185m	0	46	32	32
Sulfur	ppm	ASTM D5185m	13	63	230	0
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>11	1	<1	<1
Sodium	ppm	ASTM D5185m	>21	0	<1	0
Potassium	ppm	ASTM D5185m	>20	1	<1	0
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>80000	589	4971	21794
Particles >6µm		ASTM D7647	>20000	39	1601	7834
Particles >14μm		ASTM D7647	>640	3	94	644
Particles >21μm		ASTM D7647	>160	1	17	125
Particles >38µm		ASTM D7647	>40	0	1	8
Particles >71µm		ASTM D7647	>10	0	0	1
Oil Cleanliness		ISO 4406 (c)	>23/21/16	16/12/9	19/18/14	22/20/17



# **OIL ANALYSIS REPORT**





Certificate 12367

Laboratory Sample No. Lab Number

: JR0200426 : 06195323

Unique Number : 11057446

Received : 30 May 2024 **Tested** : 31 May 2024 Diagnosed : 01 Jun 2024 - Don Baldridge

Test Package : CONST ( Additional Tests: PQ )

To discuss this sample report, contact Customer Service at 1-800-237-1369.

 $^st$  - 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)

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