

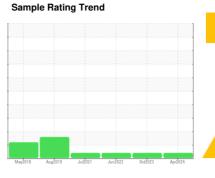
# **OIL ANALYSIS REPORT**

# [W51086]

# **JOHN DEERE 75G 1FF075GXVFJ015758**

Hydraulic System

HITACHI HYDRAULIC SUPER EX 46HN (--- GAL)





## **DIAGNOSIS**

### Recommendation

Recommend drain oil if not already done. Reduce drain interval to 2000 hours or drain and flush and use recommended zinc free oil.

All component wear rates are normal.

#### Contamination

The amount and size of particulates present in the system are acceptable.

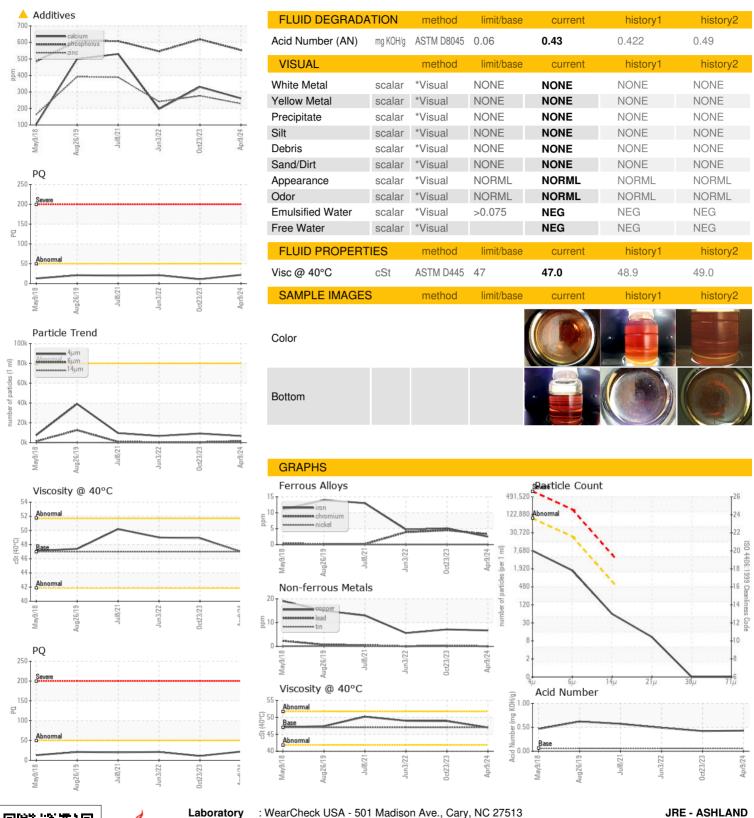
### Fluid Condition

Zinc level above manufacturer's recommendations. The AN level is acceptable for this fluid.

SAMPLE INFORMA	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		JR0179293	JR0180795	JR0106348
Sample Date		Client Info		09 Apr 2024	23 Oct 2023	03 Jun 2022
	hrs	Client Info		4944	4854	4484
	hrs	Client Info		0	0	500
Oil Changed	0	Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
CONTAMINATION		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	22	11	21
Iron	ppm	ASTM D5185m	>32	2	5	5
Chromium	ppm	ASTM D5185m	>9	3	4	4
Nickel	ppm	ASTM D5185m	>5	0	0	0
	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	<1
	ppm	ASTM D5185m	>9	<1	2	<1
Lead	ppm	ASTM D5185m	>28	0	<1	0
Copper	ppm	ASTM D5185m	>50	7	7	6
Tin	ppm	ASTM D5185m	>5	0	0	0
	ppm	ASTM D5185m				
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	1
Barium	ppm	ASTM D5185m		0	3	0
Molybdenum	ppm	ASTM D5185m		0	<1	<1
	ppm ppm	ASTM D5185m ASTM D5185m		0 <1	<1 0	<1 0
Manganese				-		
Manganese Magnesium	ppm	ASTM D5185m		<1	0	0
Manganese Magnesium Calcium	ppm ppm	ASTM D5185m ASTM D5185m	827	<1 2	0 2	0 2
Manganese Magnesium Calcium Phosphorus	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m	827 0	<1 2 261	0 2 330	0 2 197
Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m		<1 2 261 553	0 2 330 619	0 2 197 546
Manganese Magnesium Calcium Phosphorus Zinc	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0	<1 2 261 553 ^ 229	0 2 330 619 • 277	0 2 197 546 • 241
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS	ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 13	<1 2 261 553 • 229 812	0 2 330 619 • 277 806	0 2 197 546 • 241 661
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 13 limit/base	<1 2 261 553  229 812  current	0 2 330 619 ▲ 277 806 history1	0 2 197 546 ▲ 241 661 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m	0 13 limit/base >11	<1 2 261 553  229 812  current 3	0 2 330 619 ▲ 277 806 history1	0 2 197 546 ▲ 241 661 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium	pppm pppm pppm pppm pppm pppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m Method ASTM D5185m ASTM D5185m	0 13 limit/base >11 >21	<1 2 261 553  229 812  current 3 2	0 2 330 619 ▲ 277 806 history1 4 0	0 2 197 546 ▲ 241 661 history2 3 <1
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium	pppm pppm pppm pppm pppm pppm	ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m  MEthod ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m	0 13 limit/base >11 >21 >20	<1 2 261 553  229 812  current 3 2 <1	0 2 330 619 ▲ 277 806 history1 4 0	0 2 197 546 ▲ 241 661 history2 3 <1 0
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLINE	pppm pppm pppm pppm pppm pppm	ASTM D5185m	0 13 limit/base >11 >21 >20 limit/base	<1 2 261 553 229 812 current 3 2 <1 current	0 2 330 619 ▲ 277 806 history1 4 0 1	0 2 197 546 ▲ 241 661 history2 3 <1 0
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLINE Particles >4µm	pppm pppm pppm pppm pppm pppm	ASTM D5185m  Method ASTM D5185m	0 13 limit/base >11 >21 >20 limit/base >80000	<1 2 261 553  229 812  current 3 2 <1  current 6712	0 2 330 619 ▲ 277 806 history1 4 0 1 history1 9199	0 2 197 546 ▲ 241 661 history2 3 <1 0 history2
Manganese Magnesium Calcium Phosphorus Zinc Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLINE Particles >4µm Particles >6µm	pppm pppm pppm pppm pppm pppm	ASTM D5185m	0 13 limit/base >11 >21 >20 limit/base >80000 >20000 >640	<1 2 261 553 229 812 current 3 2 <1 current 6712 1483	0 2 330 619  ▲ 277 806  history1  4 0 1  history1  9199 416	0 2 197 546  ▲ 241 661  history2 3 <1 0 history2 6779 412
Manganese Magnesium Calcium Phosphorus Zinc Sulfur  CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLINE Particles >4µm Particles >6µm Particles >14µm	pppm pppm pppm pppm pppm pppm	ASTM D5185m  Method ASTM D5185m ASTM D7647 ASTM D7647	0 13 limit/base >11 >21 >20 limit/base >80000 >20000 >640	<1 2 261 553 229 812 current 3 2 <1 current 6712 1483 53	0 2 330 619 ▲ 277 806  history1 4 0 1 history1 9199 416 21	0 2 197 546  ▲ 241 661  history2  3 <1 0  history2  6779 412 28
Manganese Magnesium Calcium Phosphorus Zinc Sulfur  CONTAMINANTS Silicon Sodium Potassium  FLUID CLEANLINE Particles >4µm Particles >14µm Particles >21µm	pppm pppm pppm pppm pppm pppm	ASTM D5185m  Method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	0 13 limit/base >11 >21 >20 limit/base >80000 >20000 >640 >160 >40	<1 2 261 553  229 812  current 3 2 <1  current 6712 1483 53 9	0 2 330 619 ▲ 277 806 history1 4 0 1 history1 9199 416 21 6	0 2 197 546  ▲ 241 661  history2 3 <1 0 history2 6779 412 28 5



## OIL ANALYSIS REPORT







Certificate 12367

Laboratory Sample No.

Lab Number : 06145750 Unique Number : 10970558

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0179293 Received **Tested** 

: 11 Apr 2024 : 12 Apr 2024 Diagnosed Test Package : CONST ( Additional Tests: PQ )

: 14 Apr 2024 - Don Baldridge

ASHLAND, VA US 23005 Contact: DAVID ZIEG

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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)

Contact/Location: DAVID ZIEG - JAMASH