

PROBLEM SUMMARY

Sample Rating Trend

ADDITIVES

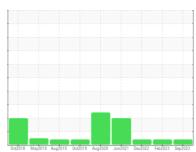


JOHN DEERE 350G 1FF350GXVCE808679

Component

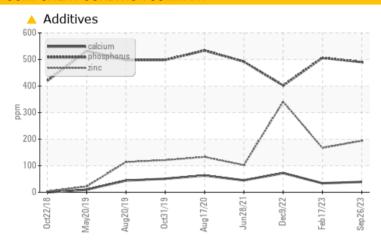
Hydraulic System

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





COMPONENT CONDITION SUMMARY



RECOMMENDATION

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

PROBLEMATIC T	EST RE	SULTS				
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Zinc	ppm	ASTM D5185m	0	194	△ 167	<u></u> 341

Customer Id: JAMASH Sample No.: JR0179315 Lab Number: 05966166 Test Package: CONST

To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid			?	Recommend drain oil if not already done. Reduce drain interval to 2000 hours or drain and flush and use recommended zinc free oil.
Flush System			?	Recommend drain oil if not already done. Reduce drain interval to 2000 hours or drain and flush and use recommended zinc free oil.

HISTORICAL DIAGNOSIS

17 Feb 2023 Diag: Don Baldridge

ADDITIVES



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. The amount and size of particulates present in the system are acceptable. Zinc level above manufacturer's recommendations. The AN level is acceptable for this fluid.



09 Dec 2022 Diag: Jonathan Hester

ADDITIVES



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. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. Zinc level above manufacturer's recommendations. The AN level is acceptable for this fluid.

view report

28 Jun 2021 Diag: Don Baldridge

WEAR



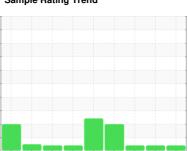
Recommend drain oil if not already done. Reduce drain interval to 2000 hours or drain and flush and use recommended zinc free oil. The iron level is abnormal. The aluminum level is abnormal. The amount and size of particulates present in the system are acceptable. Zinc level above manufacturer's recommendations. The AN level is acceptable for this fluid.





OIL ANALYSIS REPORT

Sample Rating Trend



ADDITIVES



JOHN DEERE 350G 1FF350GXVCE808679

Component

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.

Wear

All component wear rates are normal.

Contamination

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

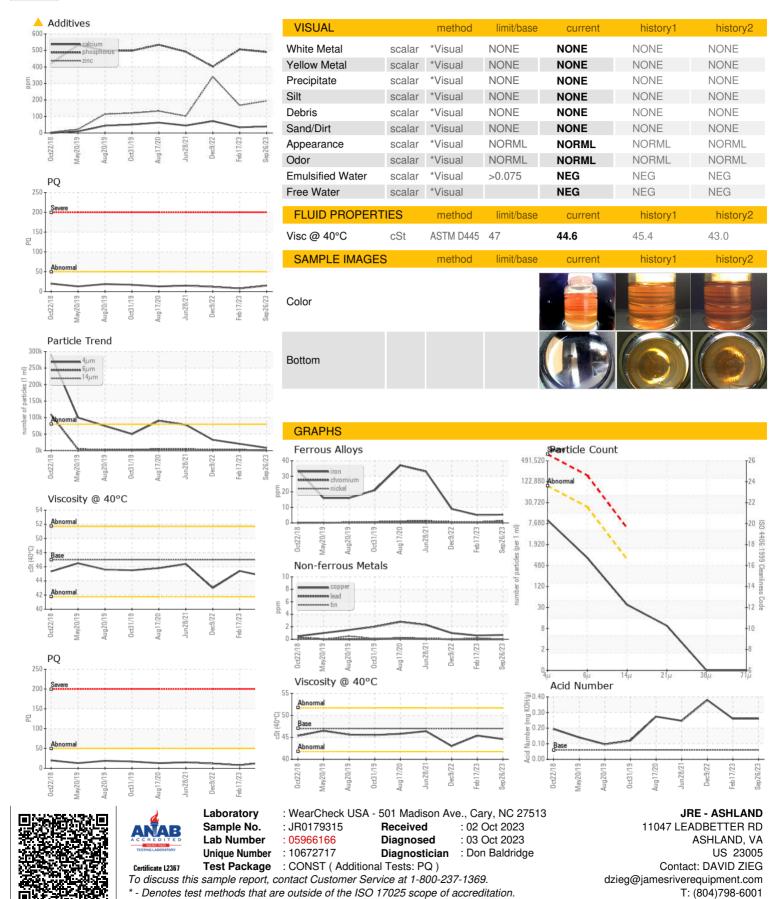
Fluid Condition

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

UPER EX 46HN (G/12)	Oct2018 Ma	y2019 Aug2019 Oct2019	Aug2020 Jun2021 Dec2022 Feb20	23 Sep2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		JR0179315	JR0147995	JR0148243
Sample Date		Client Info		26 Sep 2023	17 Feb 2023	09 Dec 2022
Machine Age	hrs	Client Info		8979	8468	8350
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>50	15	8	12
Iron	ppm	ASTM D5185m	>32	5	5	9
Chromium	ppm	ASTM D5185m	>9	1	<1	<1
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	1	2
Lead	ppm	ASTM D5185m	>28	0	0	0
Copper	ppm	ASTM D5185m	>50	<1	<1	1
Tin	ppm	ASTM D5185m	>5	0	<1	0
Antimony	ppm	ASTM D5185m				
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	5
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		2	2	4
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		8	6	14
Calcium	ppm	ASTM D5185m				
Phosphorus				39	34	72
	ppm	ASTM D5185m	827	490	506	72 402
Zinc	ppm ppm					
Zinc Sulfur		ASTM D5185m		490	506	402
-	ppm	ASTM D5185m ASTM D5185m	0	490 1 94	506 ▲ 167	402 ▲ 341
Sulfur	ppm	ASTM D5185m ASTM D5185m ASTM D5185m	0 13 limit/base	490 194 614	506 ▲ 167 672	402 A 341 1277
Sulfur CONTAMINANTS	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method	0 13 limit/base	490 194 614 current	506 ▲ 167 672 history1	402 ▲ 341 1277 history2
Sulfur CONTAMINANTS Silicon	ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	0 13 limit/base >11	490 194 614 current 2	506 ▲ 167 672 history1	402 341 1277 history2
Sulfur CONTAMINANTS Silicon Sodium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m	0 13 limit/base >11 >21	490 490 194 614 current 2 0	506 ▲ 167 672 history1 1 <1	402 341 1277 history2 2 0
Sulfur CONTAMINANTS Silicon Sodium Potassium	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m	0 13 limit/base >11 >21 >20	490 194 614 current 2 0 <1	506 ▲ 167 672 history1 1 <1 0	402 341 1277 history2 2 0 1
Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method	0 13 limit/base >11 >21 >20 limit/base	490 490 194 614 current 2 0 <1 current	506 ▲ 167 672 history1 1 <1 0 history1	402 ▲ 341 1277 history2 2 0 1 history2
Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m	0 13 limit/base >11 >21 >20 limit/base >80000	490 ▲ 194 614 current 2 0 <1 current 8426	506 ▲ 167 672 history1 1 <1 0 history1 20658	402 ▲ 341 1277 history2 2 0 1 history2 32661
Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm ppm ppm ppm	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 limit/base >80000 >20000	490 ▲ 194 614 current 2 0 <1 current 8426 703	506 ▲ 167 672 history1 1 <1 0 history1 20658 2196	402 ▲ 341 1277 history2 2 0 1 history2 32661 2576
Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647	0 13 limit/base >11 >21 >20 limit/base >80000 >20000 >640	490 ▲ 194 614	506 ▲ 167 672 history1 1 <1 0 history1 20658 2196 97	402 ▲ 341 1277 history2 2 0 1 history2 32661 2576 28
Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m 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	490 490 194 614 current 2 0 <1 current 8426 703 32 8	506 ▲ 167 672 history1 1 <1 0 history1 20658 2196 97 21	402 ▲ 341 1277 history2 2 0 1 history2 32661 2576 28 5
Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	0 13 limit/base >11 >21 >20 limit/base >80000 >20000 >640 >160 >40	490 490 194 614 current 2 0 <1 current 8426 703 32 8 0	506 ▲ 167 672 history1 1 <1 0 history1 20658 2196 97 21 2	402 ▲ 341 1277 history2 2 0 1 history2 32661 2576 28 5 0
Sulfur CONTAMINANTS Silicon Sodium Potassium FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm Particles >71µm	ppm ppm ppm ppm ppm ppm	ASTM D5185m ASTM D5185m ASTM D5185m method ASTM D5185m ASTM D5185m ASTM D5185m ASTM D5185m ASTM D7647	0 13 limit/base >11 >21 >20 limit/base >80000 >20000 >640 >160 >40 >10	490 490 194 614 current 2 0 <1 current 8426 703 32 8 0 0	506 ▲ 167 672 history1 1 <1 0 history1 20658 2196 97 21 2 0	402 341 1277 history2 2 0 1 history2 32661 2576 28 5 0 0



OIL ANALYSIS REPORT



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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