

PROBLEM SUMMARY

Sample Rating Trend

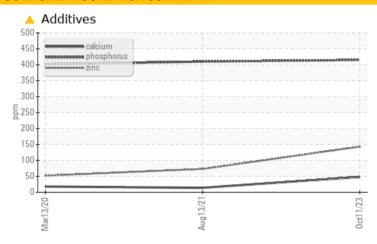
ADDITIVES

JOHN DEERE 50G 1FF050GXJJH288883

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. Oil and filter change at the time of sampling has been noted.

PROBLEMATIC T	PROBLEMATIC TEST RESULTS						
Sample Status				ABNORMAL	NORMAL	NORMAL	
Zinc	ppm	ASTM D5185m	0	143	73	52	

Customer Id: JAMASH **Sample No.:** JR0180550 Lab Number: 05978192 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			?	Oil and filter change at the time of sampling has been noted. 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.
Change Filter			?	Oil and filter change at the time of sampling has been noted.

HISTORICAL DIAGNOSIS

13 Aug 2021 Diag: Jonathan Hester

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



13 Mar 2020 Diag: Jonathan Hester

NORMAL



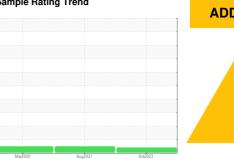
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend



ADDITIVES



JOHN DEERE 50G 1FF050GXJJH288883

Hydraulic System

HITACHI HYDRAULIC SUPER EX 46HN (---

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. Oil and filter change at the time of sampling has been noted.

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.

GAL)		Ma	2020	Aug2021 Oct20	23	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		JR0180550	JR0088601	JR0040873
Sample Date		Client Info		11 Oct 2023	13 Aug 2021	13 Mar 2020
Machine Age	hrs	Client Info		2174	1435	772
Oil Age	hrs	Client Info		2174	1435	772
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>50	16	18	21
Iron	ppm	ASTM D5185m	>32	11	10	7
Chromium	ppm	ASTM D5185m	>9	<1	<1	<1
Nickel	ppm	ASTM D5185m	>5	0	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>9	1	0	<1
Lead	ppm	ASTM D5185m	>28	0	1	<1
Copper	ppm	ASTM D5185m	>50	11	2	3
Tin	ppm	ASTM D5185m	>5	0	<1	<1
Antimony	ppm	ASTM D5185m			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	<1	<1
Barium	ppm	ASTM D5185m		2	0	<1
Molybdenum	ppm	ASTM D5185m		1	<1	<1
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		11	6	6
Calcium	ppm	ASTM D5185m		48	14	18
Phosphorus	ppm	ASTM D5185m	827	415	410	402
Zinc	ppm	ASTM D5185m	0	143	73	52
Sulfur	ppm	ASTM D5185m	13	586	674	579
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>11	4	2	2
Sodium	ppm	ASTM D5185m	>21	<1	<1	1
Potassium	ppm	ASTM D5185m	>20	0	<1	<1
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>80000	21757	4891	25230
Particles >6μm		ASTM D7647	>20000	2167	344	1016
Particles >14µm		ASTM D7647	>640	29	14	11
Particles >21µm		ASTM D7647	>160	6	2	4
Particles >38µm		ASTM D7647	>40	0	0	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>23/21/16	22/18/12	19/16/11	22/17/11
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.23	0.176	0.150



OIL ANALYSIS REPORT

