

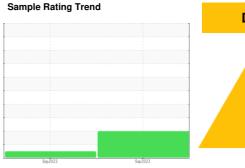
PROBLEM SUMMARY



Store 3 - Norton Machine Id JOHN DEERE 300GL 1FF300GXHNF732106

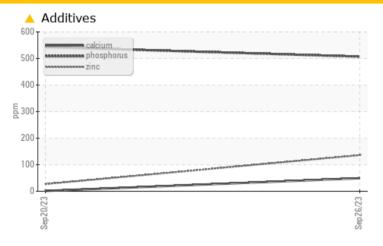
Component **Hydraulic System**

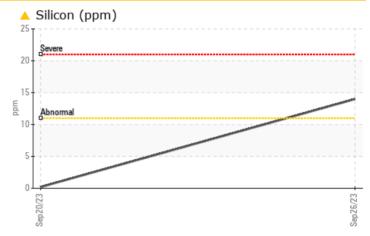
HITACHI HYDRAULIC SUPER EX 46HN (77 GAL)





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 1	TEST RE	SULTS				
Sample Status				ABNORMAL	NORMAL	
Zinc	ppm	ASTM D5185m	0	136	27	
Silicon	ppm	ASTM D5185m	>11	14	<1	

Customer Id: LESMAROH Sample No.: LEC0043243 Lab Number: 05963481 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

20 Sep 2023 Diag: Don Baldridge

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.





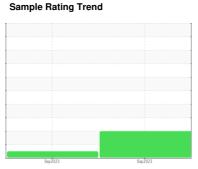




Store 3 - Norton JOHN DEERE 300GL 1FF300GXHNF732106

Hydraulic System

HITACHI HYDRAULIC SUPER EX 46HN (77 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

Elemental level of silicon (Si) above normal indicating ingress of seal material. The amount and size of particulates present in the system are acceptable.

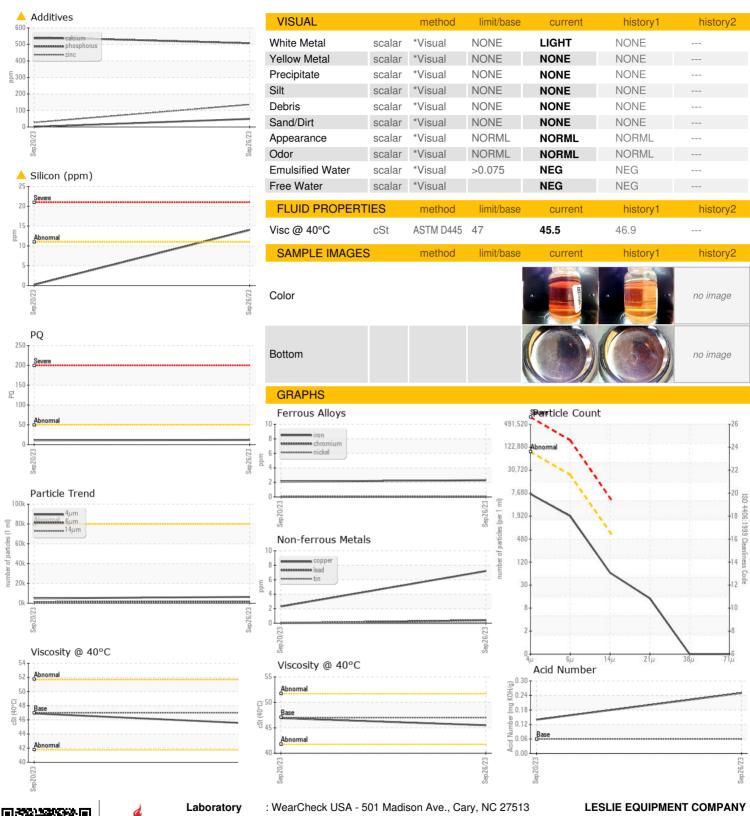
▲ Fluid Condition

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

IPER EX 46HN (/	/ GAL)		Sep 2023	Sep 2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		LEC0043243	LEC0042723	
Sample Date		Client Info		26 Sep 2023	20 Sep 2023	
Machine Age	hrs	Client Info		930	471	
Oil Age	hrs	Client Info		930	471	
Oil Changed		Client Info		Not Changd	Not Changd	
Sample Status				ABNORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184	>50	12	11	
ron	ppm	ASTM D5185m	>32	2	2	
Chromium	ppm	ASTM D5185m	>9	0	0	
Nickel	ppm	ASTM D5185m	>5	0	0	
Γitanium	ppm	ASTM D5185m		<1	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>9	<1	1	
Lead	ppm	ASTM D5185m	>28	<1	0	
Copper	ppm	ASTM D5185m	>50	7	2	
Fin	ppm	ASTM D5185m	>5	0	0	
Vanadium	ppm	ASTM D5185m	70	0	0	
Cadmium	ppm	ASTM D5185m		0	0	
	ppiii			J .	U	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	
Barium	ppm	ASTM D5185m		0	0	
Molybdenum	ppm	ASTM D5185m		1	0	
Manganese	ppm	ASTM D5185m		<1	0	
Magnesium	ppm	ASTM D5185m		<1	2	
Calcium	ppm	ASTM D5185m		49	1	
Phosphorus	ppm	ASTM D5185m	827	507	543	
Zinc	ppm	ASTM D5185m	0	<u> </u>	27	
Sulfur	ppm	ASTM D5185m	13	651	106	
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>11	<u> </u>	<1	
Sodium	ppm	ASTM D5185m	>21	1	2	
Potassium	ppm	ASTM D5185m	>20	<1	4	
FLUID CLEANLIN	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>80000	6353	4938	
Particles >6µm		ASTM D7647	>20000	1681	1121	
Particles >14µm		ASTM D7647	>640	56	65	
Particles >21µm		ASTM D7647	>160	12	14	
Particles >38µm		ASTM D7647	>40	0	1	
Particles >71µm		ASTM D7647	>10	0	0	
Oil Cleanliness		ISO 4406 (c)	>23/21/16	20/18/13	19/17/13	
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.25	0.14	



OIL ANALYSIS REPORT







Sample No. Lab Number **Unique Number**

: 05963481

: LEC0043243 : 10670032

Received Diagnosed

: 28 Sep 2023 : 29 Sep 2023 Diagnostician : Don Baldridge

Test Package : CONST (Additional Tests: PQ) Certificate L2367

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) 105 TENNIS CENTER DR. MARIETTA, OH US 45750-9765

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