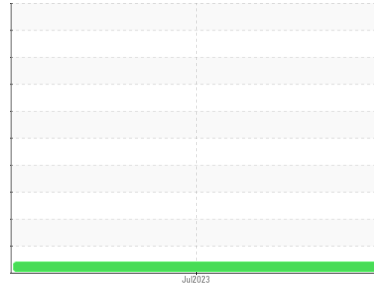




PROBLEM SUMMARY

Area
Store 5 - Cross Lanes
 Machine Id
JOHN DEERE 60G 1FF060GXENJ295492
 Component
Hydraulic System
 Fluid
HITACHI HYDRAULIC SUPER EX 46HN (28 GAL)

Sample Rating Trend

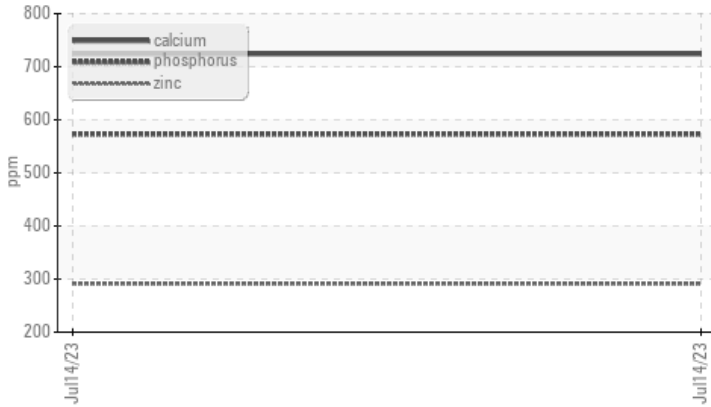


ADDITIVES



COMPONENT CONDITION SUMMARY

▲ Additives



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 TEST RESULTS

Sample Status	ABNORMAL		---	---		
Zinc	ppm	ASTM D5185m	0	▲ 291	---	---

Customer Id: LESMAROH
 Sample No.: LEC0041999
 Lab Number: 05901174
 Test Package: CONST



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Don Baldrige +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



OIL ANALYSIS REPORT

Sample Rating Trend

ADDITIVES

Area

Store 5 - Cross Lanes

Machine Id

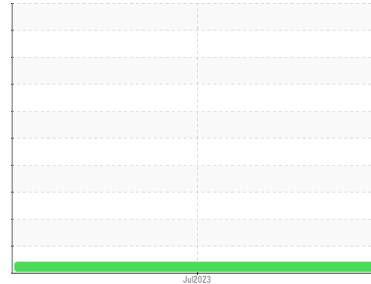
JOHN DEERE 60G 1FF060GXENJ295492

Component

Hydraulic System

Fluid

HITACHI HYDRAULIC SUPER EX 46HN (28 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.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	LEC0041999	---	---
Sample Date	Client Info	14 Jul 2023	---	---
Machine Age	hrs	Client Info	685	---
Oil Age	hrs	Client Info	685	---
Oil Changed	Client Info	Not Chngd	---	---
Sample Status		ABNORMAL	---	---

WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184	>50	17	---
Iron	ppm	ASTM D5185m	>32	17
Chromium	ppm	ASTM D5185m	>9	0
Nickel	ppm	ASTM D5185m	>5	0
Titanium	ppm	ASTM D5185m		<1
Silver	ppm	ASTM D5185m		0
Aluminum	ppm	ASTM D5185m	>9	1
Lead	ppm	ASTM D5185m	>28	<1
Copper	ppm	ASTM D5185m	>50	6
Tin	ppm	ASTM D5185m	>5	0
Vanadium	ppm	ASTM D5185m		<1
Cadmium	ppm	ASTM D5185m		0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0
Barium	ppm	ASTM D5185m		0
Molybdenum	ppm	ASTM D5185m		0
Manganese	ppm	ASTM D5185m		<1
Magnesium	ppm	ASTM D5185m		29
Calcium	ppm	ASTM D5185m		724
Phosphorus	ppm	ASTM D5185m	827	573
Zinc	ppm	ASTM D5185m	0	▲ 291
Sulfur	ppm	ASTM D5185m	13	1859

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>11	2
Sodium	ppm	ASTM D5185m	>21	1
Potassium	ppm	ASTM D5185m	>20	<1

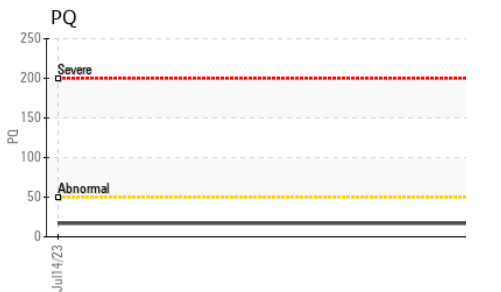
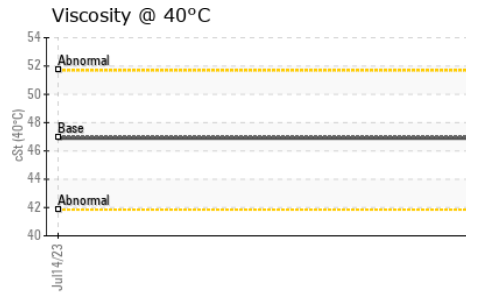
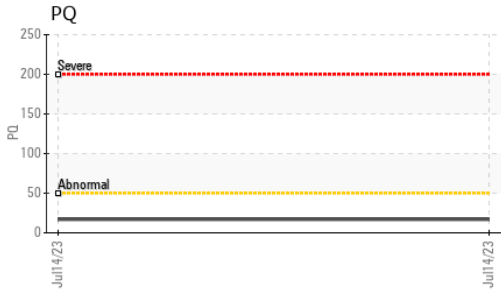
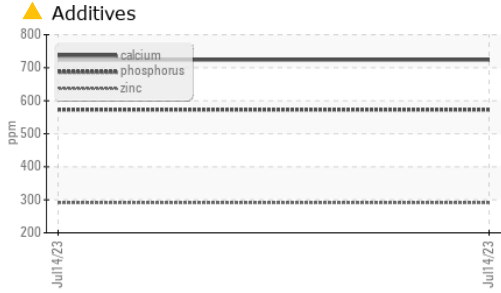
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>80000	42925	---
Particles >6µm	ASTM D7647	>20000	5355	---
Particles >14µm	ASTM D7647	>640	122	---
Particles >21µm	ASTM D7647	>160	14	---
Particles >38µm	ASTM D7647	>40	0	---
Particles >71µm	ASTM D7647	>10	0	---
Oil Cleanliness	ISO 4406 (c)	>23/21/16	23/20/14	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.54

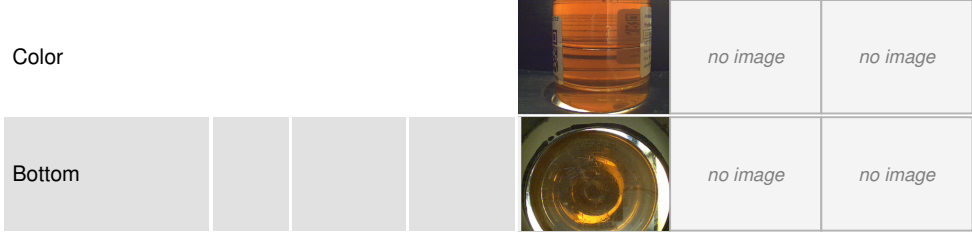
OIL ANALYSIS REPORT



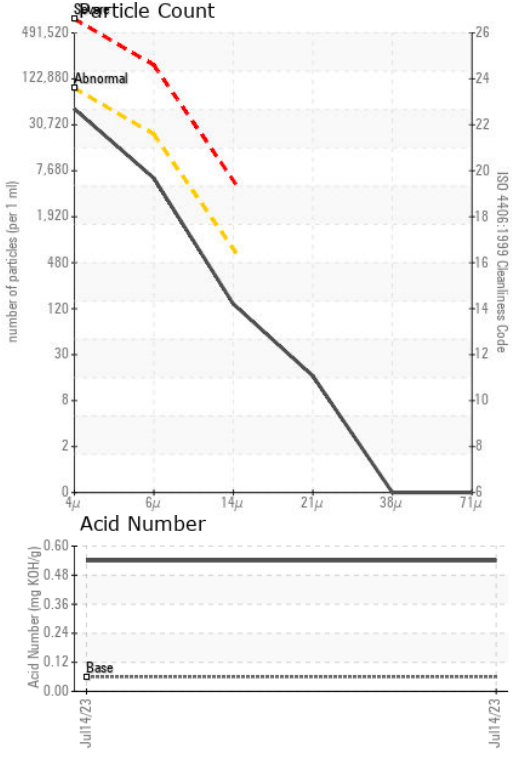
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.075	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 47	46.9	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : LEC0041999 **Received** : 18 Jul 2023
Lab Number : 05901174 **Diagnosed** : 19 Jul 2023
Unique Number : 10562530 **Diagnostician** : Don Baldrige
Test Package : CONST (Additional Tests: PQ)

LESLIE EQUIPMENT COMPANY
 105 TENNIS CENTER DR.
 MARIETTA, OH
 US 45750-9765
 Contact: LEANNE KENDALL
 KendalLeanne@lec1.com
 T:
 F: (740)373-5570

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)