



OIL ANALYSIS REPORT

WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL ABNORMAL

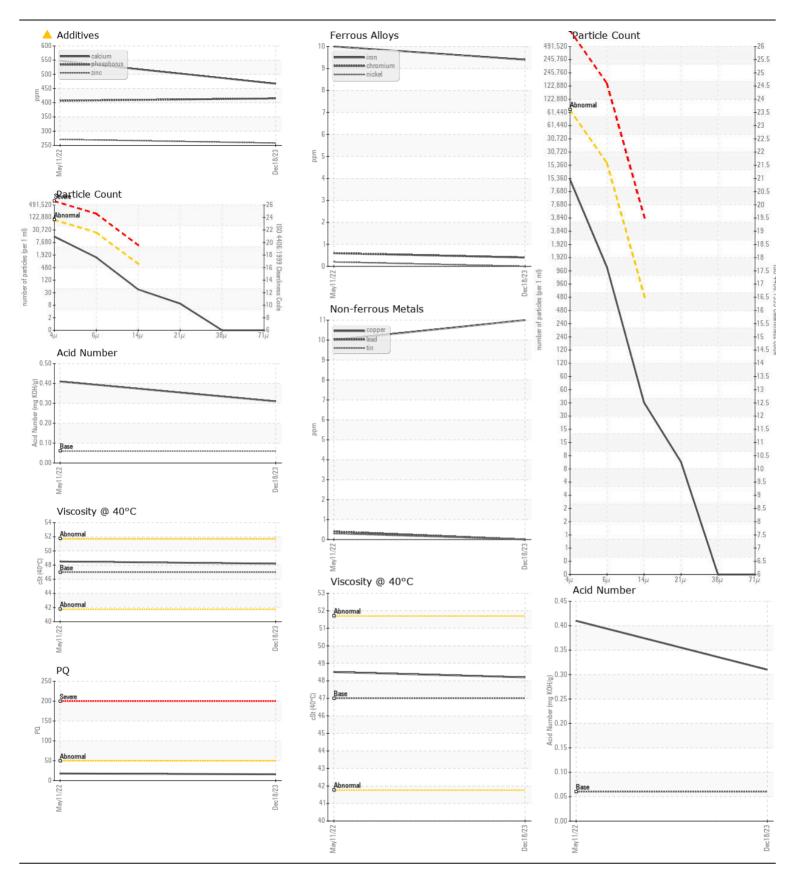


Store 4 - Fairmont

JOHN DEERE 50G 1FF050GXEEH282208

Component Hydraulic System

HITACHI HYDRAULIC SUPER	EX 46HN (QIS					
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Recommend drain oil if not already done. Reduce drain interval to 2000 hours or drain and flush and use recommended zinc free oil. Please note that this is a corrected copy for data entry updates.	Sample Number		Client Info		LEC0046033	LEC0027708	
	Sample Date		Client Info		18 Dec 2023	11 May 2022	
	Machine Age	hrs	Client Info		1938	1536	
	Oil Age	hrs	Client Info		1938	1536	
	Filter Age	hrs	Client Info		402	1536	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				ABNORMAL	ABNORMAL	
WEAR All component wear rates are normal.	PQ		ASTM D8184	>50	16	18	
	Iron	ppm	ASTM D5185m	>32	9	10	
	Chromium	ppm	ASTM D5185m		<1	<1	
	Nickel	ppm	ASTM D5185m		0	<1	
	Titanium	ppm	ASTM D5185m	7 0	0	<1	
	Silver	ppm	ASTM D5185m		0	<1	
	Aluminum	ppm	ASTM D5185m	>9	<1	1	
	Lead	ppm	ASTM D5185m		0	<1	
	Copper	ppm	ASTM D5185m		11	10	
	Tin	ppm	ASTM D5185m		0	<1	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION The amount and size of particulates present in the system are acceptable.	Silicon	ppm	ASTM D5185m	<u>_11</u>	3	3	
	Potassium	ppm	ASTM D5185m		0	0	
	Water	ррпп	WC Method		NEG	NEG	
	Particles >4µm		ASTM D7647		12989	71102	
	Particles >4µm		ASTM D7647		1305	19024	
	Particles >14µm		ASTM D7647		38	▲ 1213	
	Particles >21µm		ASTM D7647		8	115	
	Particles >38µm		ASTM D7647		0	110	
	Particles >30µm		ASTM D7647		0	0	
	Oil Cleanliness		ISO 4406 (c)		21/18/12	△ 23/21/17	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water		*Visual	>0.075	NEG	NEG	
	Lindishied Water		VIOUGI	20.070			
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>21	2	2	
Zinc level above manufacturer's recommendations. The AN level is acceptable for this fluid.	Boron	ppm	ASTM D5185m		10	16	
	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		4	5	
	Manganese	ppm	ASTM D5185m		0	<1	
	Magnesium	ppm	ASTM D5185m		13	16	
	Calcium	ppm	ASTM D5185m		467	547	
	Phosphorus	ppm	ASTM D5185m	827	415	407	
	Zinc	ppm	ASTM D5185m	0	258	<u> </u>	
	Sulfur	ppm	ASTM D5185m	13	1515	1474	
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.31	0.41	
	Visc @ 40°C	cSt	ASTM D445	47	48.2	48.5	





Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: 06042649

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 21 Dec 2023 : LEC0046033 Recieved Diagnosed : 09 Jan 2024 : 10803257 Diagnostician : Doug Bogart

Test Package : CONST (Additional Tests: PQ) 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)

LESLIE EQUIPMENT COMPANY

105 TENNIS CENTER DR. MARIETTA, OH US 45750-9765 Contact: LEANNE KENDALL

KendalLeanne@lec1.com

T: F: (740)373-5570