



WEAR
CONTAMINATION
FLUID CONDITION

NORMAL

ABNORMAL

NORMAL



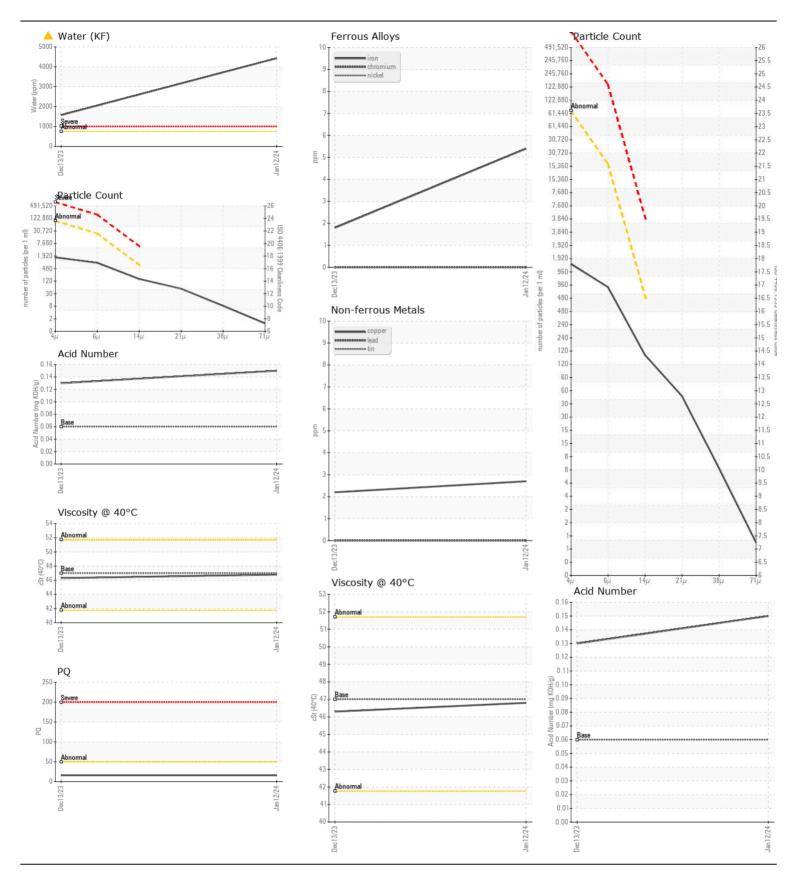
Store 4 - Fairmont

JOHN DEERE 130P 1FF130PATPF000074

Component Hydraulic System

HITACHI HYDRAULIC SUPER EX 46HN (49 GAL)

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RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		LEC0046602	LEC0046053	
We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. Resample at the next service interval to monitor.	Sample Date		Client Info		12 Jan 2024	13 Dec 2023	
	Machine Age	hrs	Client Info		300	298	
	Oil Age	hrs	Client Info		300	298	
	Filter Age	hrs	Client Info		300	298	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Not Changd	Not Changd	
	Sample Status				ABNORMAL	ABNORMAL	
WEAR	PQ		ASTM D8184	>50	16	16	
	Iron	ppm	ASTM D5185m	>32	5	2	
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>9	0	0	
	Nickel	ppm	ASTM D5185m	>5	0	0	
	Titanium	ppm	ASTM D5185m		0	0	
	Silver	ppm	ASTM D5185m		0	0	
	Aluminum	ppm	ASTM D5185m	>9	0	0	
	Lead	ppm	ASTM D5185m		0	0	
	Copper	ppm		>50	3	2	
	Tin	ppm	ASTM D5185m		0	0	
	Vanadium	ppm	ASTM D5185m	, ,	0	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
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CONTAMINATION	Silicon	ppm	ASTM D5185m	>11	2	1	
CONTAININATION	Potassium	ppm	ASTM D5185m	>20	10	6	
Appearance is hazy. There is a moderate concentration of water present in the oil. The amount and size of particulates present in the system are acceptable.	Water	%	ASTM D6304		△ 0.443	▲ 0.157	
	ppm Water	ppm	ASTM D6304		△ 4430	<u>▲</u> 1570	
	Particles >4µm	ρρ	ASTM D7647		1461	2636	
	Particles >6µm		ASTM D7647		796	1436	
	Particles >14µm		ASTM D7647		135	244	
	Particles >21µm		ASTM D7647		46	82	
	Particles >38µm		ASTM D7647		7	13	
	Particles >71µm		ASTM D7647		1	1	
	Oil Cleanliness		ISO 4406 (c)	>23/21/16	18/17/14	19/18/15	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	▲ HAZY	NORML	
	Odor		*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar		>0.075	▲ 0.2%	▲ 0.2%	
	Elliuisilleu vvalei	Scalai	*Visual	>0.075	U.270	0.270	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>21	<1	3	
TEGID CONDITION	Boron	ppm	ASTM D5185m	/ L I	0	0	
The AN level is acceptable for this fluid.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		0	0	
	Manganese	ppm	ASTM D5185m		0	<1	
	Magnesium	ppm	ASTM D5185m		0	0	
	Calcium		ASTM D5185m		0	0	
	Phosphorus	ppm	ASTM D5185m	827	479	449	
	Zinc	ppm	ASTM D5185m		20	0	
	Sulfur	ppm	ASTM D5165III		43	0	
	Acid Number (AN)	ppm	ASTM D5185ff				
	. ,	mg KOH/g		0.06	0.15	0.13	
	Visc @ 40°C	cSt	ASTM D445	47	46.8	46.3	





Unique Number

Laboratory Sample No. Lab Number : 06060960

: LEC0046602 : 10832342

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved : 16 Jan 2024 Diagnosed : 23 Jan 2024 Diagnostician : Doug Bogart

Test Package : CONST (Additional Tests: KF, 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)

LESLIE EQUIPMENT COMPANY

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

KendalLeanne@lec1.com

T:

F: (740)373-5570