



WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL NORMAL



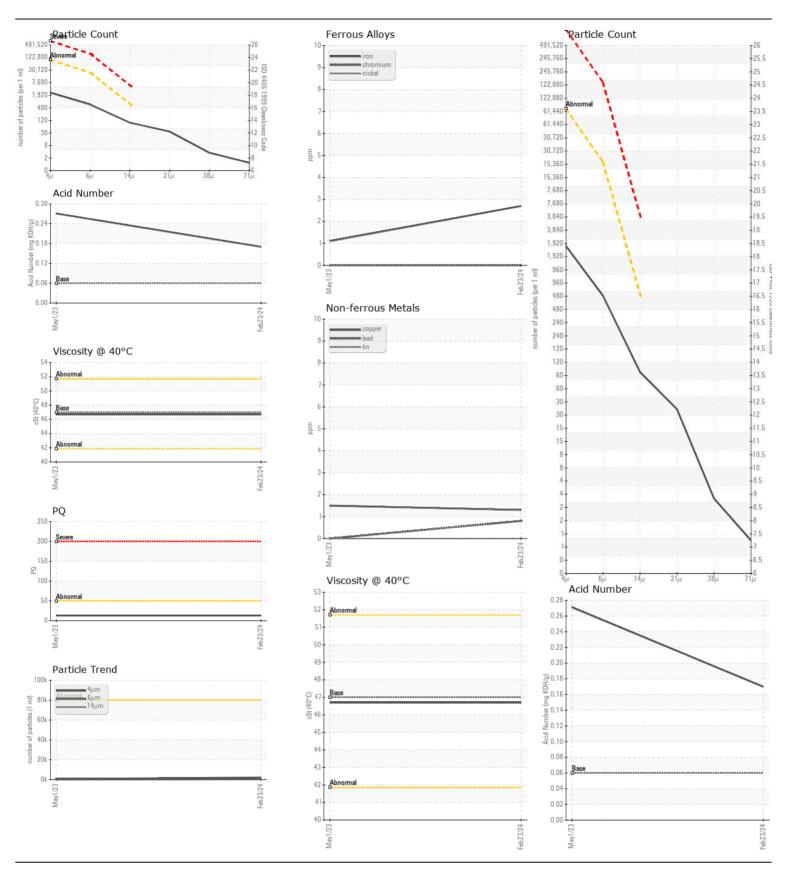
Store 4 - Fairmont

JOHN DEERE 160G 1FF160GXTNF058789

Component Hydraulic System

HITACHI HYDRAULIC SUPER EX 46HN (56 GAL)

	=X 46HN (56		'				
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		LEC0047743	LEC0040416	
	Sample Date		Client Info		23 Feb 2024	01 May 2023	
	Machine Age	hrs	Client Info		989	538	
	Oil Age	hrs	Client Info		989	538	
	Filter Age	hrs	Client Info		989	538	
	Oil Changed		Client Info		Not Changd	Not Changd	
	Filter Changed		Client Info		Changed	Not Changd	
<u></u>	Sample Status				NORMAL	NORMAL	
VEAR	PQ		ASTM D8184		13	13	
All component wear rates are normal.	Iron	ppm	ASTM D5185m		3	1	
	Chromium	ppm	ASTM D5185m		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		0	0	
	Lead	ppm	ASTM D5185m		<1	0	
	Copper	ppm	ASTM D5185m		1	2	
	Tin	ppm	ASTM D5185m	>5	0	0	
	Vanadium	ppm	*Visual	NONE	0 NONE	0	
	White Metal	scalar		NONE	NONE	NONE	
<u></u>	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>11	<1	<1	
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.	Potassium	ppm	ASTM D5185m	>20	<1	<1	
	Water		WC Method		NEG	NEG	
	Particles >4µm		ASTM D7647		2217	657	
	Particles >6µm		ASTM D7647		603	80	
	Particles >14μm		ASTM D7647		82	4	
	Particles >21µm		ASTM D7647		31	1	
	Particles >38μm		ASTM D7647		3	0	
	Particles >71μm		ASTM D7647		1	0	
	Oil Cleanliness		ISO 4406 (c)		18/16/14	17/13/9	
	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	
<u> </u>	Emulsified Water	Scalar	*Visual	>0.075	NEG	NEG	
LUID CONDITION	Sodium	ppm	ASTM D5185m	>21	2	<1	
The AN level is accordable for this fluid. The condition of the all in	Boron	ppm	ASTM D5185m		0	0	
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0	0	
	Molybdenum	ppm	ASTM D5185m		0	0	
	Manganese	ppm	ASTM D5185m		0	<1	
	Magnesium	ppm	ASTM D5185m		<1	6	
	Calcium	ppm	ASTM D5185m		1	0	
	Phosphorus	ppm	ASTM D5185m		468	477	
	Zinc	ppm	ASTM D5185m		38	21	
	Sulfur	ppm	ASTM D5185m		102	0	
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.17	0.271	
	Visc @ 40°C	cSt	ASTM D445	47	46.7	46.7	





Certificate L2367

Laboratory Sample No.

: LEC0047743 Lab Number : 06102406

Unique Number: 10900636

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 27 Feb 2024 Tested

: 28 Feb 2024 : 29 Feb 2024 - Don Baldridge Diagnosed

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