

WEAR NORMAL CONTAMINATION NORMAL **FLUID CONDITION** NORMAL

History1

23 Dec 2022 470

470

470

N/A

<1 0

18/16/11 ----

NONE NONE ---NONE NORML ----NORML NEG

<1

0.08

46.7

183

0.16

46.7

NORMAL

LEC0020048 ----

Not Changd ----

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History2

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Store 4 - Fairmont **JOHN DEERE 210G 1FF210GXTNF530279** Hydraulic System

HITACHI HYDRAULIC SUPER EX 46HN (63 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current
Resample at the next service interval to monitor.	Sample Number		Client Info		LEC0042306
	Sample Date		Client Info		07 Jun 2023
	Machine Age	hrs	Client Info		983
	Oil Age	hrs	Client Info		983
	Filter Age	hrs	Client Info		983
	Oil Changed		Client Info		Not Changd
	Filter Changed		Client Info		Changed
	Sample Status				NORMAL
WEAR	PQ		ASTM D8184	> 50	13
WEAN	Iron	ppm	ASTM D0104 ASTM D5185m		2
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		0
	Nickel	ppm	ASTM D5185m		0
	Titanium		ASTM D5185m	>0	0
	Silver	ppm ppm	ASTM D5185m		0
	Aluminum	ppm	ASTM D5185m	<u>_0</u>	0
	Lead		ASTM D5185m		0
	Copper	ppm	ASTM D5185m	>50	1
	Tin	ppm ppm	ASTM D5185m		0
	Vanadium	ppm	ASTM D5185m	>0	0
	White Metal	scalar	*Visual	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE
			v 150ai		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>11	<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
	Water		WC Method	>0.075	NEG
	Particles >4µm		ASTM D7647	>80000	595
	Particles >6µm		ASTM D7647	>20000	127
	Particles >14µm		ASTM D7647	>640	12
	Particles >21µm		ASTM D7647	>160	3
	Particles >38µm		ASTM D7647	>40	0
	Particles >71µm		ASTM D7647		0
	Oil Cleanliness		ISO 4406 (c)	>23/21/16	16/14/11
	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
FLUID CONDITION	Sodium	ppm	ASTM D5185m	<u>\21</u>	<1
I LOID CONDITION	Boron		ASTM D5185m	221	0
The AN level is acceptable for this fluid. The condition of the oils additive package is suitable for further service.	Barium	ppm ppm	ASTM D5185m		0
	Molybdenum	ppm	ASTM D5185m		0
	Manganese	ppm	ASTM D5185m		<1
	Magnesium	ppm	ASTM D5185m		0
	Calcium	ppm	ASTM D5185m		2
	Phosphorus	ppm	ASTM D5185m	827	549
	Zinc	ppm	ASTM D5185m		25
		PPIII		10	25

Sulfur

ppm ASTM D5185m 13

Acid Number (AN) mg KOH/g ASTM D8045 0.06

Visc @ 40°C cSt ASTM D445 47



