

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL

History1

01 Dec 2023 110

110 110

LEC0046522 ----

Not Changd ----

Not Changd ----

NORMAL

NONE

1 0

NEG

17/13/10

NONE

NONE

NONE

NORML

NORML

NEG

100

0.09

47.5

History2



Store 1 - Cowen [149967] JOHN DEERE 210P 1FF210PALPF000855 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		LEC0048088
	Sample Date		Client Info		18 Apr 2024
	Machine Age	hrs	Client Info		235
	Oil Age	hrs	Client Info		235
	Filter Age	hrs	Client Info		235
	Oil Changed		Client Info		Not Changd
	Filter Changed		Client Info		Not Changd
	Sample Status				NORMAL
WEAR	PQ		ASTM D8184	>50	13
	Iron	ppm	ASTM D5185m	>32	<1
All component wear rates are normal.	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	0
	Lead	ppm	ASTM D5185m	>28	0
	Copper	ppm	ASTM D5185m	>50	2
	Tin	ppm	ASTM D5185m	>5	0
	Vanadium	ppm	ASTM D5185m		<1
	White Metal	scalar	*Visual	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE
CONTAMINATION The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m	>11	<1
	Potassium	ppm	ASTM D5185m		0
	Water		WC Method		NEG
	Particles >4µm		ASTM D7647	>80000	2964
	Particles >6µm		ASTM D7647	>20000	311
	Particles >14µm		ASTM D7647	>640	16
	Particles >21µm		ASTM D7647	>160	5
	Particles >38µm		ASTM D7647	>40	1
	Particles >71µm		ASTM D7647	>10	0
	Oil Cleanliness		ISO 4406 (c)	>23/21/16	19/15/11
	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	>21	0
	Boron	ppm	ASTM D5185m		0
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0
	Molybdenum	ppm	ASTM D5185m		0
	Manganese	ppm	ASTM D5185m		0
	Magnesium	ppm	ASTM D5185m		<1
	Calcium	ppm	ASTM D5185m		2
	Phosphorus	ppm	ASTM D5185m	827	521
	Zinc	ppm	ASTM D5185m		23
	Culture	0.00	ACTM DE10Em	10	407

Sulfur

ppm ASTM D5185m 13

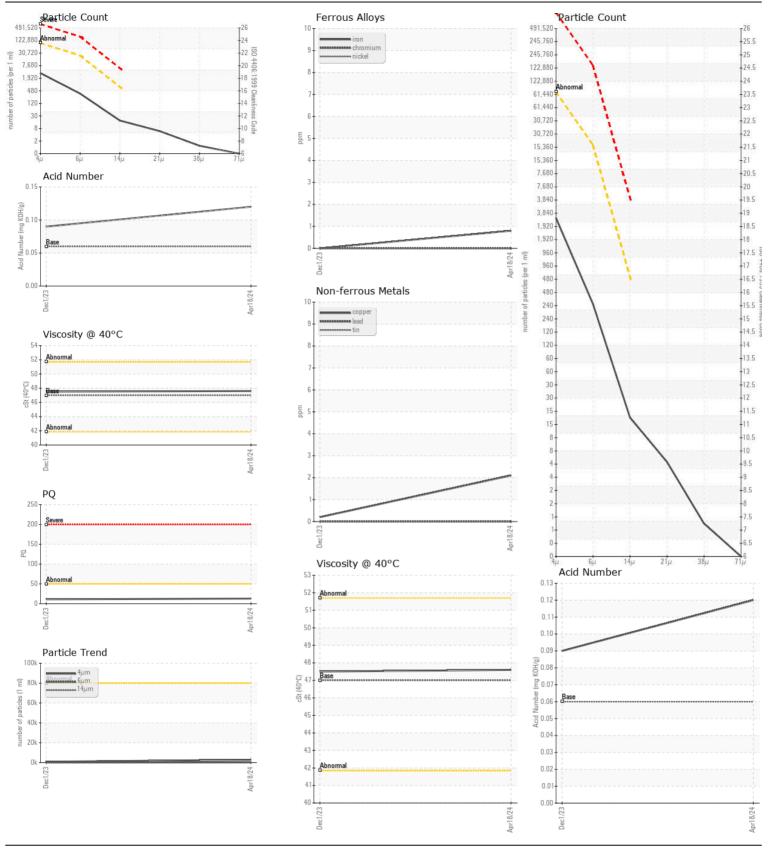
Acid Number (AN) mg KOH/g ASTM D8045 0.06

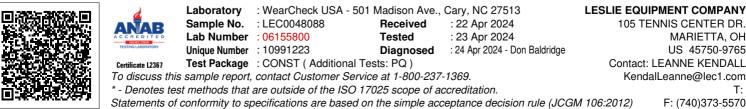
Visc @ 40°C cSt ASTM D445 47

167

0.12

47.6





Submitted By: STORE 5 - CROSS LANES - KYLE HIGGINS Page 2 of 2