

## WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION NORMAL



## Area Store 1 - Cowen [146367] Machine Id JOHN DEERE 210P 1FF210PAHPF000369 Component Hydraulic System

HITACHI HYDRAULIC SUPER EX 46HN (63 GAL)

REC	OMMEN	IDATION	
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No corrective action is recommended at this time. Resample at the next service interval to monitor.

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All component wear rates are normal.

## CONTAMINATION

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

## FLUID CONDITION

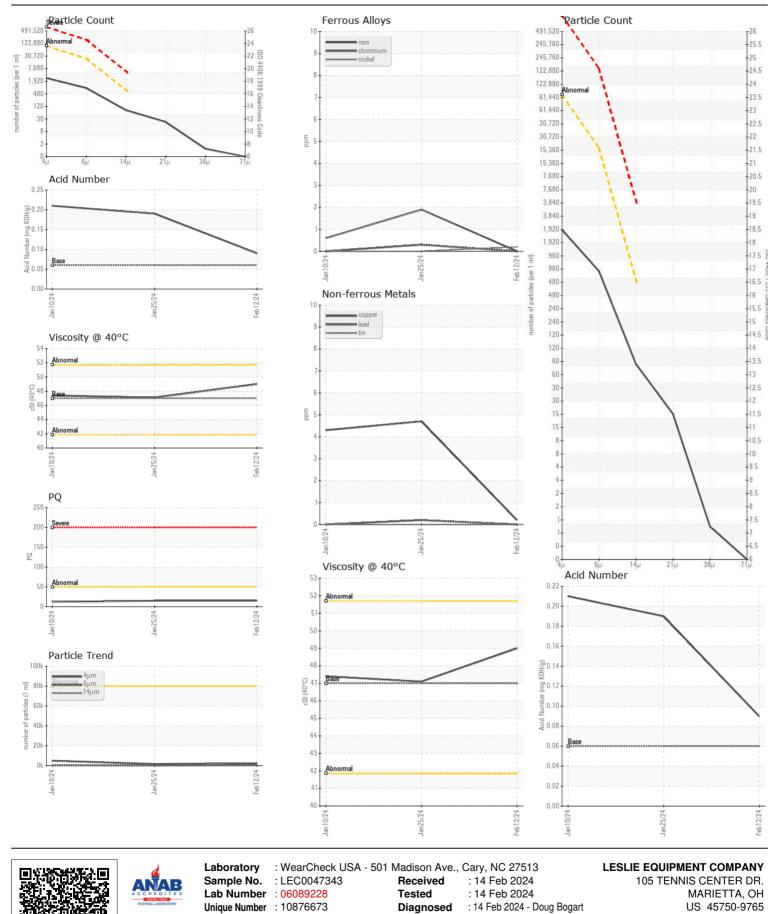
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

	MAL	/		~~~~~		
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0047343	LEC0045901	LEC0045975
Sample Date		Client Info		12 Feb 2024	25 Jan 2024	10 Jan 2024
Machine Age	hrs	Client Info		408	407	406
Oil Age	hrs	Client Info		408	407	406
Filter Age	hrs	Client Info		408	407	406
Oil Changed		Client Info		Changed	Not Changd	Not Changd
Filter Changed		Client Info		Changed	Not Changd	Not Changd
Sample Status				NORMAL	ABNORMAL	ABNORMAL
PQ		ASTM D8184	>50	15	15	12
Iron	ppm	ASTM D5185m	>32	0	2	<1
Chromium	ppm	ASTM D5185m	>9	0	<1	0
Nickel	ppm	ASTM D5185m	>5	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>9	0	2	0
Lead	ppm	ASTM D5185m	>28	0	<1	0
Copper	ppm	ASTM D5185m	>50	<1	5	4
Tin	ppm	ASTM D5185m	>5	0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>11	2	<1	0
Potassium	ppm	ASTM D5185m	>20	0	1	0
Water	ppiii	WC Method	>0.075	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>80000	2353	1706	4972
Particles >6µm		ASTM D7647	>20000	796	88	527
Particles >14µm		ASTM D7647		70	9	22
Particles >21µm		ASTM D7647	>160	19	4	4
Particles >38µm		ASTM D7647		1	0	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)		18/17/13	18/14/10	19/16/12
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.075	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m	>21	<1	<1	0
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		0	8	0
Calcium	ppm	ASTM D5185m	007	4	24	16
Phosphorus	ppm	ASTM D5185m		634	443	499
Zinc	ppm	ASTM D5185m	0	29	▲ 125	▲ 130
Sulfur	ppm	ASTM D5185m	13	115	288	408
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.09	0.19	0.21

49.00

Visc @ 40°C cSt ASTM D445 47

47.1 47.4



Test Package : CONST (Additional Tests: PQ) Contact: LEANNE KENDALL Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. KendalLeanne@lec1.com \* - 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) F: (740)373-5570

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