

## WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION ABNORMAL



## Store 1 - Cowen [152940] Machine Id JOHN DEERE 350P 1FF350PACRF001259 Component Hydraulic System Fluid HITACHI HYDRAULIC SUPER EX 46HN (77 GAL)

RECOMMENDATION

Recommend drain oil if not already done. Reduce drain interval to 2000 hours or drain and flush and use recommended zinc free oil.



All component wear rates are normal.

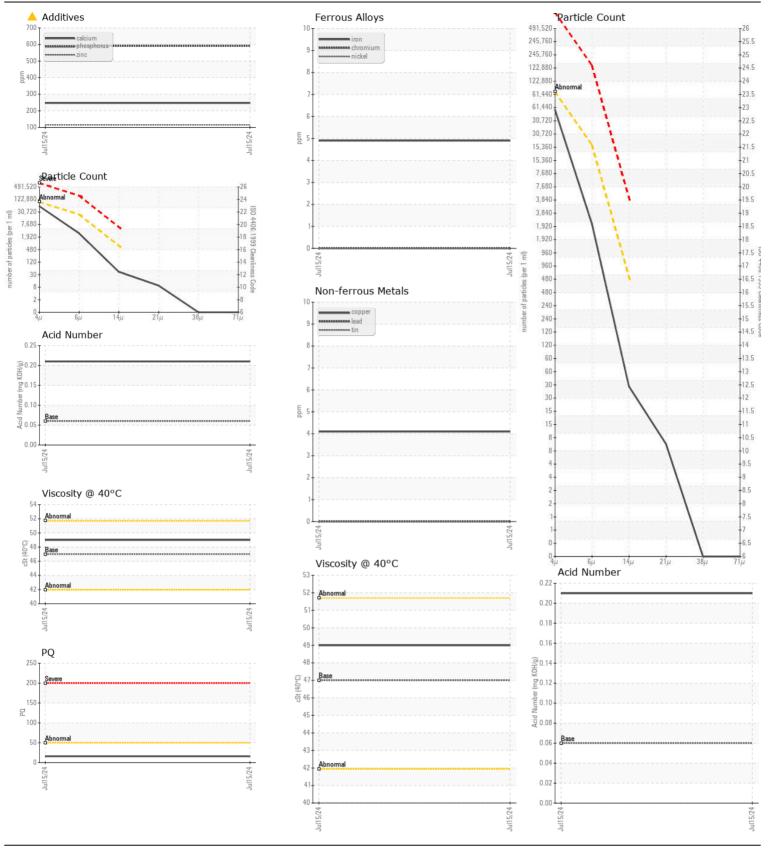
## CONTAMINATION

The amount and size of particulates present in the system are acceptable.

## FLUID CONDITION

Zinc level above manufacturer's recommendations. The AN level is acceptable for this fluid.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0049866		
Sample Date		Client Info		15 Jul 2024		
Machine Age	hrs	Client Info		237		
Oil Age	hrs	Client Info		237		
Filter Age	hrs	Client Info		237		
Oil Changed		Client Info		Not Changd		
Filter Changed		Client Info		Not Changd		
Sample Status				ABNORMAL		
PQ		ASTM D8184	>50	16		
Iron	ppm	ASTM D5185m	>32	5		
Chromium	ppm	ASTM D5185m	>9	0		
Nickel	ppm	ASTM D5185m	>5	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>9	0		
Lead	ppm	ASTM D5185m	>28	0		
Copper	ppm	ASTM D5185m	>50	4		
Tin	ppm	ASTM D5185m	>5	0		
Vanadium	ppm	ASTM D5185m	NONE	0		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
Silicon	nom	ASTM D5185m	>11	1		
Potassium	ppm		>20	0		
Water	ppm	WC Method	>0.075	NEG		
Particles >4µm		ASTM D7647	>80000	50224		
Particles >6µm		ASTM D7647 ASTM D7647	>200000	2530		
Particles >14µm		ASTM D7647	>640	36		
Particles >21µm		ASTM D7647	>160	8		
Particles >38µm		ASTM D7647	>40	0		
Particles >71µm		ASTM D7647	>10	0		
Oil Cleanliness		ISO 4406 (c)	>23/21/16	23/19/12		
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		
Sodium	ppm	ASTM D5185m	>21	1		
Boron	ppm	ASTM D5185m		2		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		3		
Calcium	ppm	ASTM D5185m		247		
Phosphorus	ppm	ASTM D5185m		591		
Zinc	ppm	ASTM D5185m	0	🔺 115		
Sulfur	ppm	ASTM D5185m	13	1114		
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.21		
Visc @ 40°C	cSt	ASTM D445	47	49.0		



LESLIE EQUIPMENT COMPANY Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 Sample No. Received 105 TENNIS CENTER DR. : LEC0049866 : 17 Jul 2024 : 06239068 Lab Number : 18 Jul 2024 MARIETTA, OH Tested : 18 Jul 2024 - Don Baldridge US 45750-9765 Unique Number : 11127902 Diagnosed 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. T: Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (740)373-5570

Submitted By: STORE 1 - COWEN - JENNIFER ARMENTROUT Page 2 of 2