

WEAR NORMAL CONTAMINATION NORMAL FLUID CONDITION ABNORMAL



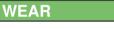
Store 4 - Fairmont JOHN DEERE 210G 1FF210GXKEE522062

Hydraulic System

HITACHI HYDRAULIC SUPER EX 46HN (63 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. (Customer Sample Comment: CARLINE)



All component wear rates are normal.

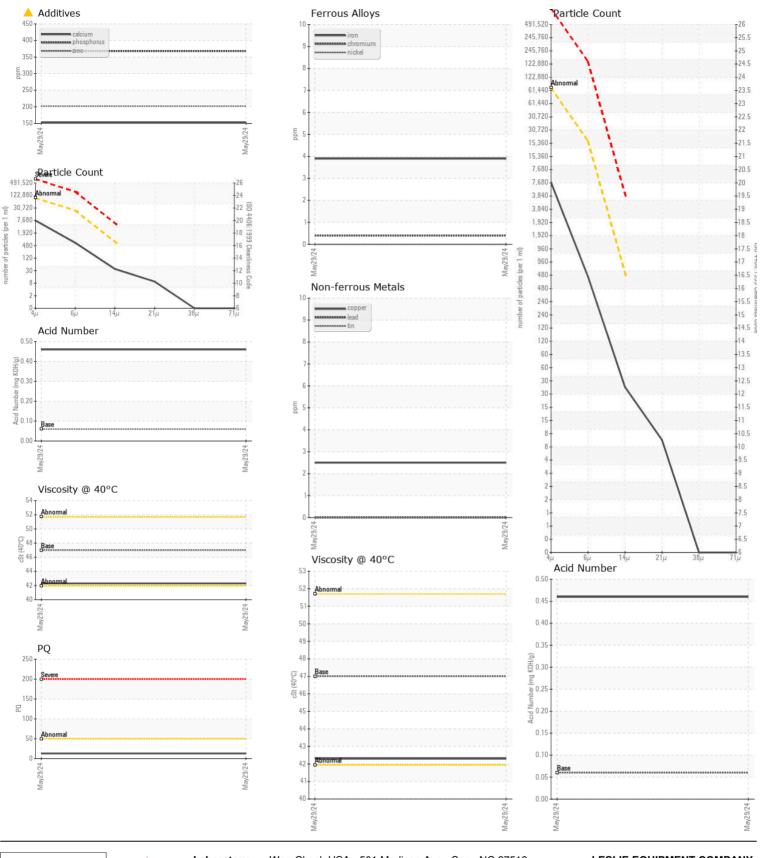
CONTAMINATION

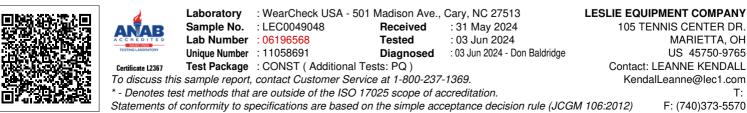
The amount and size of particulates present in the system are acceptable.

FLUID CONDITION

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

	O/LE	/				
Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0049048		
Sample Date		Client Info		29 May 2024		
Machine Age	hrs	Client Info		5500		
Oil Age	hrs	Client Info		5500		
Filter Age	hrs	Client Info		200		
Oil Changed	1110	Client Info		Not Changd		
Filter Changed		Client Info		Not Changd		
Sample Status				ABNORMAL		
PQ		ASTM D8184	>50	13		
Iron	ppm	ASTM D5185m	>32	4		
Chromium	ppm	ASTM D5185m	>9	<1		
Nickel	ppm	ASTM D5185m	>5	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>9	<1		
Lead	ppm	ASTM D5185m	>28	0		
Copper	ppm	ASTM D5185m	>50	2		
Tin	ppm	ASTM D5185m		0		
Vanadium	ppm	ASTM D5185m	~ 0	0		
White Metal	scalar	*Visual	NONE	NONE		
Yellow Metal	scalar	*Visual	NONE	NONE		
		*150001				
Silicon	ppm	ASTM D5185m	>11	1		
Potassium	ppm	ASTM D5185m	>20	<1		
Water	1-1-	WC Method	>0.075	NEG		
Particles >4µm		ASTM D7647		6773		
Particles >6µm		ASTM D7647	>20000	575		
Particles >14µm		ASTM D7647	>640	32		
Particles >21µm		ASTM D7647	>160	8		
Particles >38µm		ASTM D7647		0		
Particles >71µm		ASTM D7647	>10	0		
Oil Cleanliness		ISO 4406 (c)		20/16/12		
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		
	coului		1 0.070			
Sodium	ppm	ASTM D5185m	>21	1		
Boron	ppm	ASTM D5185m		2		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		<1		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		2		
Calcium	ppm	ASTM D5185m		152		
Phosphorus	ppm	ASTM D5185m	827	368		
Zinc	ppm	ASTM D5185m	0	▲ 202		
Sulfur	ppm	ASTM D5185m	13	633		
Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.46		
Visc @ 40°C	cSt	ASTM D445	47	42.3		
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Submitted By: APRIL TREADWAY Page 2 of 2