

# WEAR ABNORMAL CONTAMINATION ATTENTION FLUID CONDITION NORMAL



# Store 5 - Cross Lanes JOHN DEERE 318D 1T0318DALCG235284

Hydraulic System

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (5 GAL)

## RECOMMENDATION

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

#### WEAR

The copper level is abnormal. All other component wear rates are normal.

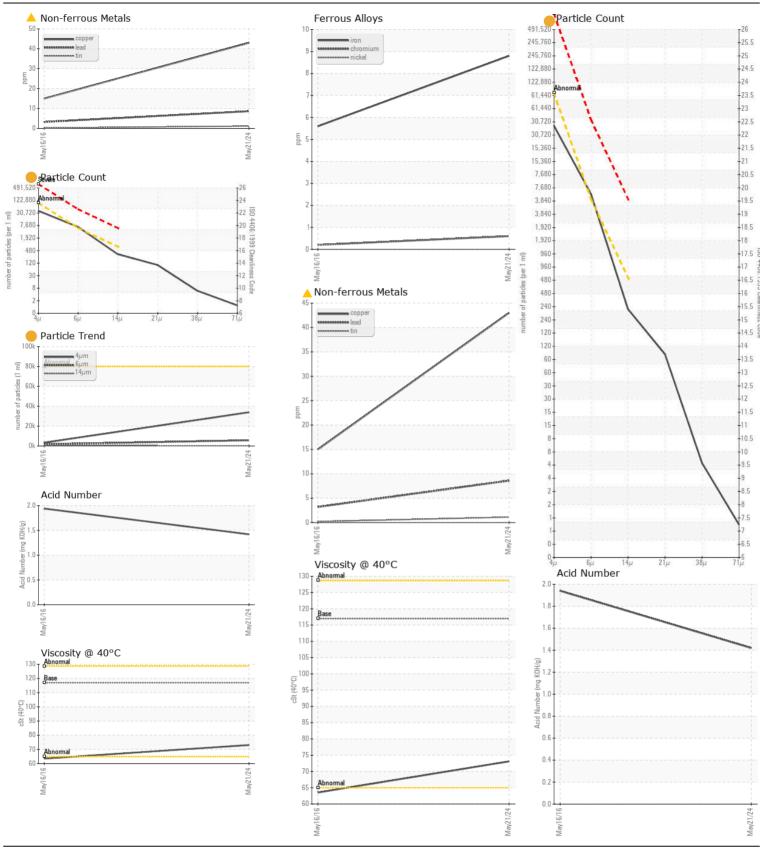
#### CONTAMINATION

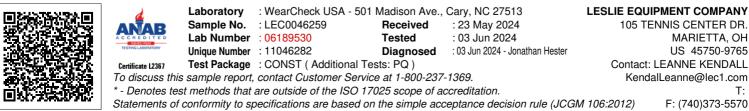
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

## FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oils additive package is suitable for further service.

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Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		LEC0046259	LECP168644	
Sample Date		Client Info		21 May 2024	16 May 2016	
Machine Age	hrs	Client Info		250	110	
Oil Age	hrs	Client Info		250	110	
Filter Age	hrs	Client Info		0	110	
Oil Changed		Client Info		Not Changd	Not Changd	
Filter Changed		Client Info		Changed	Not Changd	
Sample Status				ABNORMAL	NORMAL	
<b>PO</b>				45		
PQ		ASTM D8184	>50	15	11.0	
Iron	ppm	ASTM D5185m	>71	9	6	
Chromium	ppm	ASTM D5185m	>11	<1	<1	
Nickel	ppm	ASTM D5185m	>6	<1	<1	
Titanium	ppm	ASTM D5185m		2	<1	
Silver	ppm	ASTM D5185m	4.4	<1	0	
Aluminum	ppm	ASTM D5185m	>11	5	3	
Lead	ppm	ASTM D5185m	>13	9	3	
Copper	ppm	ASTM D5185m	>21	<b>4</b> 3	15	
Tin	ppm	ASTM D5185m	>5	1	<1	
Vanadium	ppm	ASTM D5185m	NOVE	<1	0	
White Metal	scalar	*Visual	NONE	NONE	VLITE	
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
Silicon	nnm	ASTM D5185m	>24	10	10	
Potassium	ppm	ASTM D5185m		4	3	
Water	ppm			4 NEG	NEG	
Particles >4µm		WC Method	>0.075 >80000	33882		
		ASTM D7647 ASTM D7647	>50000	5687	3370 1836	
Particles >6µm Particles >14µm		ASTM D7647 ASTM D7647		280	312	
Particles >21µm		ASTM D7647 ASTM D7647	>160	86	105	
Particles >38µm		ASTM D7647 ASTM D7647	>40	5	16	
		ASTM D7647 ASTM D7647	>40 >10	5 1	1	
Particles >71µm Oil Cleanliness				-		
Silt	aaalar	ISO 4406 (c) *Visual	>23/19/16 NONE	22/20/15 NONE	19/18/15 NONE	
Debris	scalar scalar	*Visual	NONE	NONE	VLITE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORE	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water		*Visual	>0.075	NEG	NEG	
	Scalal	visual	>0.075	NEG	INEG	
Sodium	ppm	ASTM D5185m	>21	2	2	
Boron	ppm	ASTM D5185m		213	62	
Barium	ppm	ASTM D5185m		0	<1	
Molybdenum	ppm	ASTM D5185m		148	47	
Manganese	ppm	ASTM D5185m		2	1	
Magnesium	ppm	ASTM D5185m		_ 579	340	
Calcium	ppm	ASTM D5185m		1896	2037	
Phosphorus	ppm	ASTM D5185m		871	941	
Zinc	ppm	ASTM D5185m		1139	1063	
Sulfur	ppm	ASTM D5185m		3679	3884	
Acid Number (AN)	mg KOH/g	ASTM D3103III ASTM D8045		1.42	1.94	
Visc @ 40°C	cSt	ASTM D0045 ASTM D445	117	73.1	63.53	
100 @ 40 0	001	1011010440	117		00.00	-





Submitted By: STORE5 - CROSS LANES - NEIL BALL

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