



WEAR CONTAMINATION FLUID CONDITION

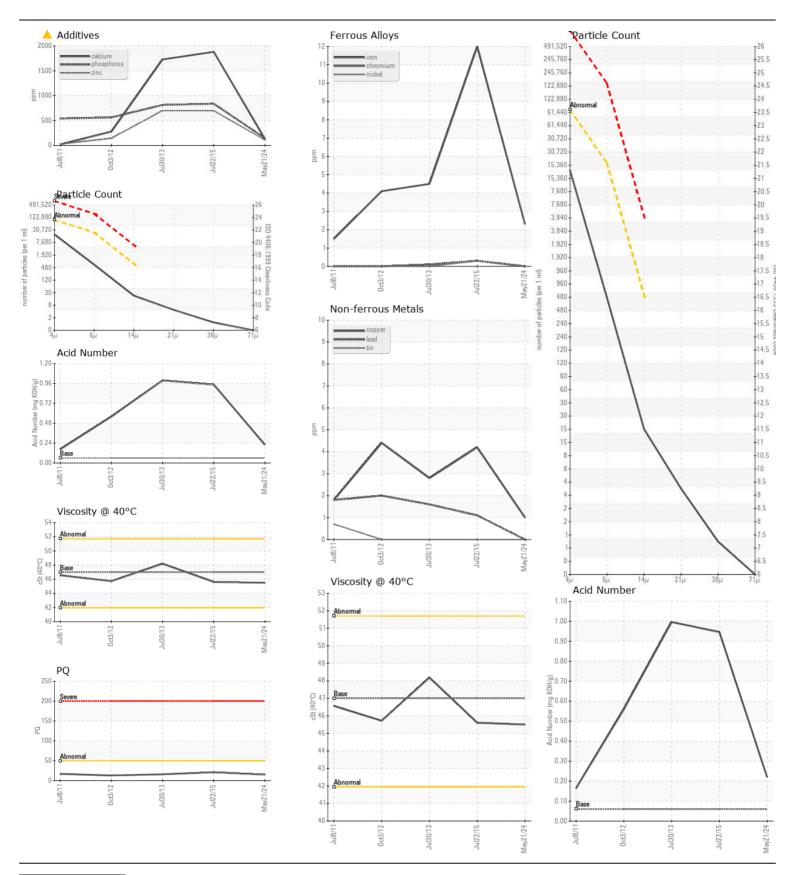
NORMAL NORMAL ABNORMAL

Store 9 - Marietta

JOHN DEERE 200D 1FF200DXCA0512237

Hydraulic System

HITACHI HYDRAULIC SUPER	EX 46HN (63	GAL)				
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Recommend drain oil if not already done. Reduce drain interval to 2000 hours or drain and flush and use recommended zinc free oil. Oil and filter change at the time of sampling has been noted. (possible pump failure).	Sample Number		Client Info		LEC0050580	,	LECP128770
	Sample Date		Client Info		21 May 2024	22 Jul 2015	30 Jul 2013
	Machine Age	hrs	Client Info		5898	3466	2163
	Oil Age	hrs	Client Info		5898	0	0
	Filter Age	hrs	Client Info		5898	0	0
	Oil Changed		Client Info		Changed	Not Changd	N/A
	Filter Changed		Client Info		Changed	Not Changd	N/A
	Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR	PQ		ASTM D8184	>50	15	21.0	16.0
All component wear rates are normal.	Iron	ppm	ASTM D5185m	>32	2	12	4
	Chromium	ppm	ASTM D5185m	>9	0	<1	<1
	Nickel	ppm	ASTM D5185m	>5	0	<1	0
	Titanium	ppm	ASTM D5185m		0	<1	<1
	Silver	ppm	ASTM D5185m		<1	0	0
	Aluminum	ppm	ASTM D5185m	>9	0	3	2
	Lead	ppm	ASTM D5185m	>28	0	1	2
	Copper	ppm	ASTM D5185m	>50	1	4	3
	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
CONTAMINATION	Silicon	ppm	ASTM D5185m		1	12	8
There is no indication of any contamination in the cit. The amount and	Potassium	ppm	ASTM D5185m		0	7	6
There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.	Water		WC Method		NEG	NEG	NEG
	Particles >4µm		ASTM D7647		16535	231	713
	Particles >6µm		ASTM D7647		589	125	388
	Particles >14μm		ASTM D7647		19	21	66
	Particles >21μm		ASTM D7647		4	7	22
	Particles >38μm		ASTM D7647		1	1	3
	Particles >71μm		ASTM D7647		0	0	0
	Oil Cleanliness		ISO 4406 (c)		21/16/11	15/14/12	17/16/13
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	VLITE	LIGHT
	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
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>21	<1	4	4
Zinc level above manufacturer's recommendations. The AN level is acceptable for this fluid.	Boron	ppm	ASTM D5185m		0	3	3
	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		<1	<1	<1
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m		3	47	44
	Calcium	ppm	ASTM D5185m		125	1880	1728
	Phosphorus	ppm	ASTM D5185m		142	837	811
	Zinc	ppm	ASTM D5185m		<u> </u>	▲ 697	△ 698
	Sulfur	ppm	ASTM D5185m		468	1987	1940
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.22	0.946	0.996
	Visc @ 40°C	cSt	ASTM D445	4/	45.5	45.61	48.19





Certificate L2367

Laboratory Sample No. Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : LEC0050580 : 06190371

Unique Number : 11047123

Received **Tested** Diagnosed Test Package : CONST (Additional Tests: PQ)

: 29 May 2024 : 29 May 2024 - Don Baldridge

: 24 May 2024

To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - 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)

LESLIE EQUIPMENT COMPANY

105 TENNIS CENTER DR. MARIETTA, OH US 45750-9765 Contact: LEANNE KENDALL

KendalLeanne@lec1.com

T:

F: (740)373-5570 Submitted By: JOHN MARTIN