

WEAR CONTAMINATION **FLUID CONDITION**

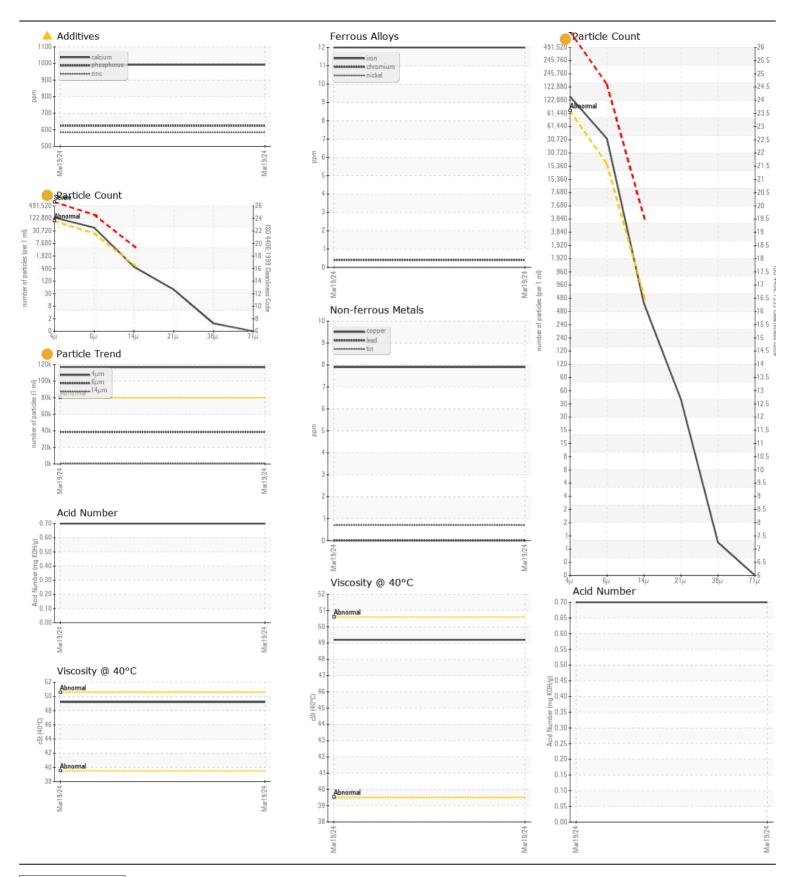
NORMAL ATTENTION ABNORMAL



JOHN DEERE 160CLC FF160CX046366

Component Hydraulic System

{not provided} (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.	Sample Number		Client Info		JR0185741		
	Sample Date		Client Info		19 Mar 2024		
	Machine Age	hrs	Client Info		6612		
	Oil Age	hrs	Client Info		2000		
	Filter Age	hrs	Client Info		2000		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAD							
WEAR All component wear rates are normal.	PQ		ASTM D8184		32		
	Iron	ppm	ASTM D5185m		12		
	Chromium	ppm	ASTM D5185m		<1		
	Nickel	ppm	ASTM D5185m	>5	0		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		0		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		8		
	Tin	ppm	ASTM D5185m	>5	<1		
	Vanadium	ppm	ASTM D5185m	NONE	0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>11	2		
	Potassium	ppm	ASTM D5185m	>20	0		
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.	Water		WC Method	>0.075	NEG		
	Particles >4µm		ASTM D7647	>80000	116748		
	Particles >6µm		ASTM D7647	>20000	38633		
	Particles >14μm		ASTM D7647	>640	519		
	Particles >21μm		ASTM D7647	>160	42		
	Particles >38μm		ASTM D7647	>40	1		
	Particles >71μm		ASTM D7647		0		
	Oil Cleanliness		ISO 4406 (c)	>23/21/16	24/22/16		
	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		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>21	2		
I LOID CONDITION	Boron	ppm	ASTM D5185m		5		
Zinc level above manufacturer's recommendations. The AN level is acceptable for this fluid.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		<1		
	Manganese	ppm	ASTM D5185m		<1		
	Magnesium	ppm	ASTM D5185m		15		
	Calcium	ppm	ASTM D5185m		992		
	Phosphorus	ppm	ASTM D5185m		624		
	Zinc	ppm	ASTM D5185m		<u>▲</u> 584		
	Sulfur	ppm	ASTM D5185m		2284		
	Acid Number (AN)	mg KOH/g	ASTM D8045		0.70		
	Visc @ 40°C	cSt	ASTM D445		49.2		
			20				





Certificate L2367

Laboratory Sample No. Lab Number

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0185741 : 06123554

Unique Number: 10937705

Received **Tested**

: 20 Mar 2024 : 25 Mar 2024 : 25 Mar 2024 - Jonathan Hester Diagnosed Test Package : CONST (Additional Tests: PQ)

JRE - CASTLE HAYNE 113 CROWATAN ROAD CASTLE HAYNE, NC US 28429-5819

Contact: WILMINGTON SHOP

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

todd.simmons@jamesriverequipment.com;canastasio@wearcheck.com;canastasio@we T: (910)675-9211

* - 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: