WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

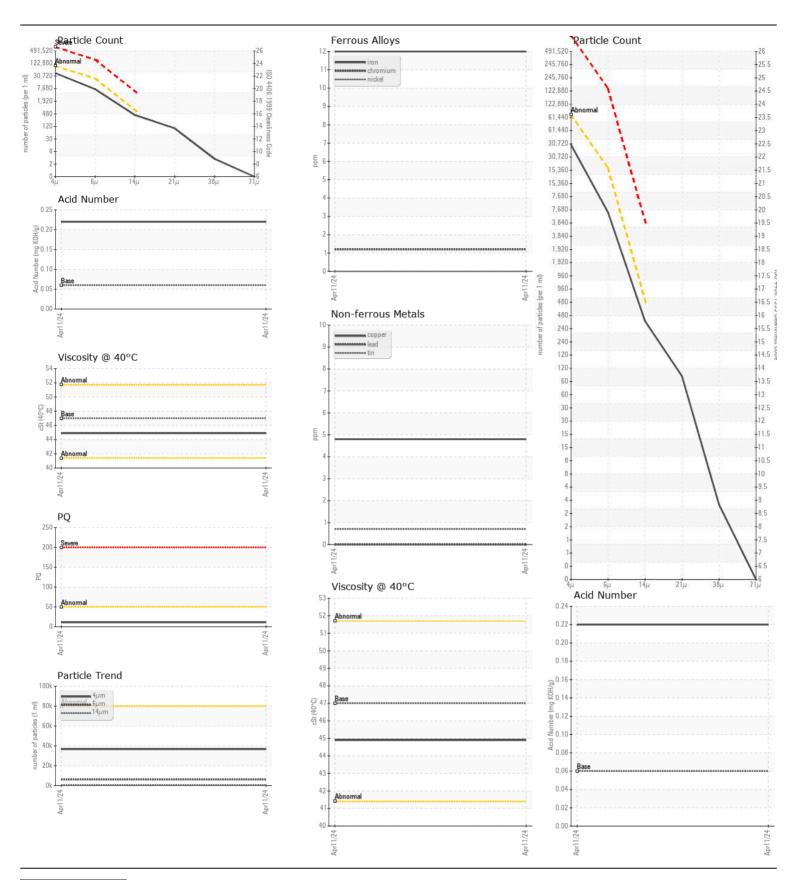
Machine Id

JOHN DEERE Deere 350 Excavator (S/N 1FF350GXCEE809843)

Hydraulic System

JOHN DEERE ZINC-FREE HYDRAULIC OIL 46 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0189561		
	Sample Date		Client Info		11 Apr 2024		
	Machine Age	hrs	Client Info		9326		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		N/A		
	Filter Changed		Client Info		N/A		
	Sample Status				NORMAL		
WEAR All component wear rates are normal.	PQ		ASTM D8184	>50	11		
	Iron	ppm	ASTM D5185m		12		
	Chromium	ppm	ASTM D5185m		1		
	Nickel	ppm	ASTM D5185m		0		
	Titanium	ppm	ASTM D5185m	70	0		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m	>9	1		
	Lead	ppm	ASTM D5185m		0		
	Copper	ppm	ASTM D5185m		5		
	Tin	ppm	ASTM D5185m		<1		
	Vanadium	ppm	ASTM D5185m	70	0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m		2		
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m		0		
	Water		WC Method		NEG		
	Particles >4µm		ASTM D7647		36685		
	Particles >6µm		ASTM D7647		6278		
	Particles >14μm		ASTM D7647		364		
	Particles >21μm		ASTM D7647		86		
	Particles >38µm		ASTM D7647		3		
	Particles >71μm		ASTM D7647		0		
	Oil Cleanliness		ISO 4406 (c)	>23/21/16	22/20/16		
	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		
	Boron	ppm	ASTM D5185m		0		
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		0		
	Manganese	ppm	ASTM D5185m		0		
	Magnesium	ppm	ASTM D5185m		<1		
	Calcium	ppm	ASTM D5185m		4		
	Phosphorus	ppm	ASTM D5185m		436		
	Zinc	ppm	ASTM D5185m		30		
	Sulfur	ppm	ASTM D5185m		302		
	Acid Number (AN)	mg KOH/g	ASTM D8045	0.06	0.22		
	Visc @ 40°C	cSt	ASTM D445		44.9		





Laboratory Sample No. Unique Number : 10980292

Lab Number : 06150214

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0189561

Received **Tested**

: 16 Apr 2024 : 17 Apr 2024 Diagnosed

: 18 Apr 2024 - Don Baldridge

JRE - NEW BERN 3816 MARTIN LUTHER KING BLVD NEW BERN, NC

US 28562 Contact: NEW BERN SHOP

Test Package : CONST (Additional Tests: PQ) Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369.

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* - 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)

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