



WEAR CONTAMINATION FLUID CONDITION

ATTENTION
ABNORMAL
NORMAL

Area

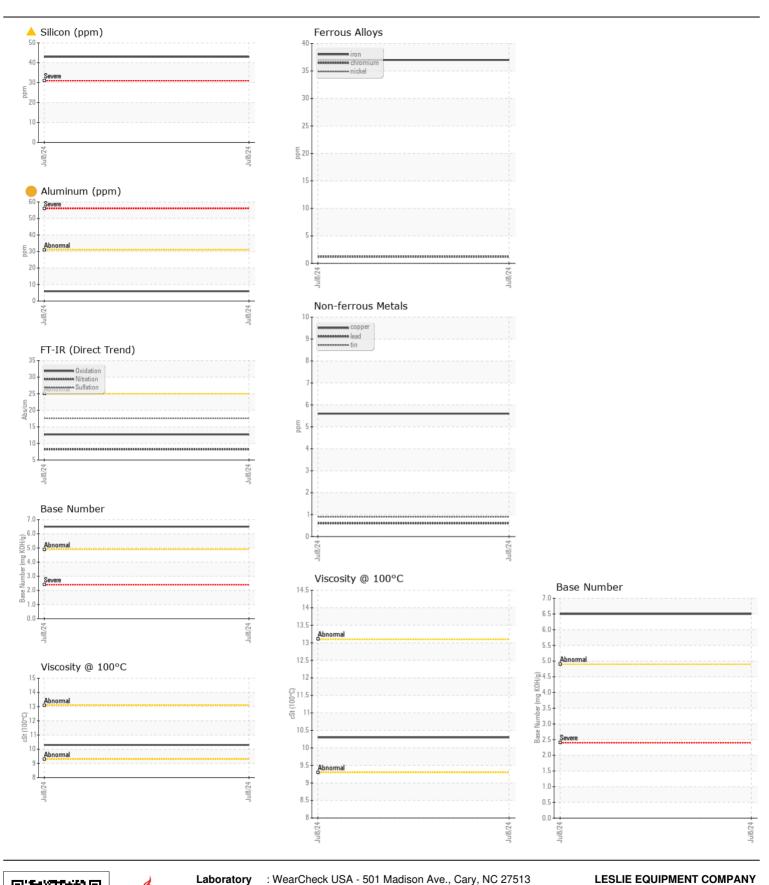
Store 9 - Marietta

JOHN DEERE 85G 1FF085GXTNJ024061

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 10W30 (3 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Check for low coolant level. We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. Resample	Sample Number		Client Info		LEC0049798		
	Sample Date		Client Info		08 Jul 2024		
	Machine Age	hrs	Client Info		465		
at the next service interval to monitor. (Customer Sample Comment:	Oil Age	hrs	Client Info		465		
PLUS 50 II 10/30 BREAK IN OIL)	Filter Age	hrs	Client Info		465		
,	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m		37		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		1		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>5	1		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m		0		
	Aluminum	ppm	ASTM D5185m		<u>6</u>		
	Lead	ppm	ASTM D5185m		<1		
	Copper	ppm	ASTM D5185m		6		
	Tin	ppm	ASTM D5185m	>4	<1		
	Vanadium	ppm	ASTM D5185m		<1		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION Sodium and/or potassium levels are high. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.	Silicon	nnm	ASTM D5185m	- 120	4 3		
	Potassium	ppm	ASTM D5185m		▲ 43 ▲ 195		
	Fuel	ppm	WC Method		<1.0		
	Water		WC Method		NEG		
	Glycol	%	*ASTM D2982	<i>></i> 0.∠1	NEG		
	Soot %	%	*ASTM D7844	. 2	0.3		
	Nitration	Abs/cm		>20	8.2		
	Sulfation	Abs/.1mm	*ASTM D7415		17.6		
	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		*Visual	>0.21	NEG		
FLUID CONDITION The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.	Sodium	ppm	ASTM D5185m	>31	16		
	Boron	ppm	ASTM D5185m		221		
	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		179		
	Manganese	ppm	ASTM D5185m		1		
	Magnesium	ppm	ASTM D5185m		39		
	Calcium	ppm	ASTM D5185m		2214		
	Phosphorus	ppm	ASTM D5185m		621		
	Zinc	ppm	ASTM D5185m		769		
	Sulfur	ppm	ASTM D5185m		2355		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	12.7		
	Base Number (BN)	mg KOH/g			6.5		
	Visc @ 100°C	cSt	ASTM D445		10.3		





Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : LEC0049798 Lab Number : 06232104

Unique Number : 11115597

Received **Tested** Diagnosed

: 10 Jul 2024 : 12 Jul 2024

: 12 Jul 2024 - Sean Felton

Test Package : CONST (Additional Tests: Glycol, TBN)

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

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

Contact: LEANNE KENDALL

KendalLeanne@lec1.com

105 TENNIS CENTER DR.

MARIETTA, OH

US 45750-9765

T: F: (740)373-5570