WEAR CONTAMINATION FLUID CONDITION

NORMAL

ABNORMAL

NORMAL

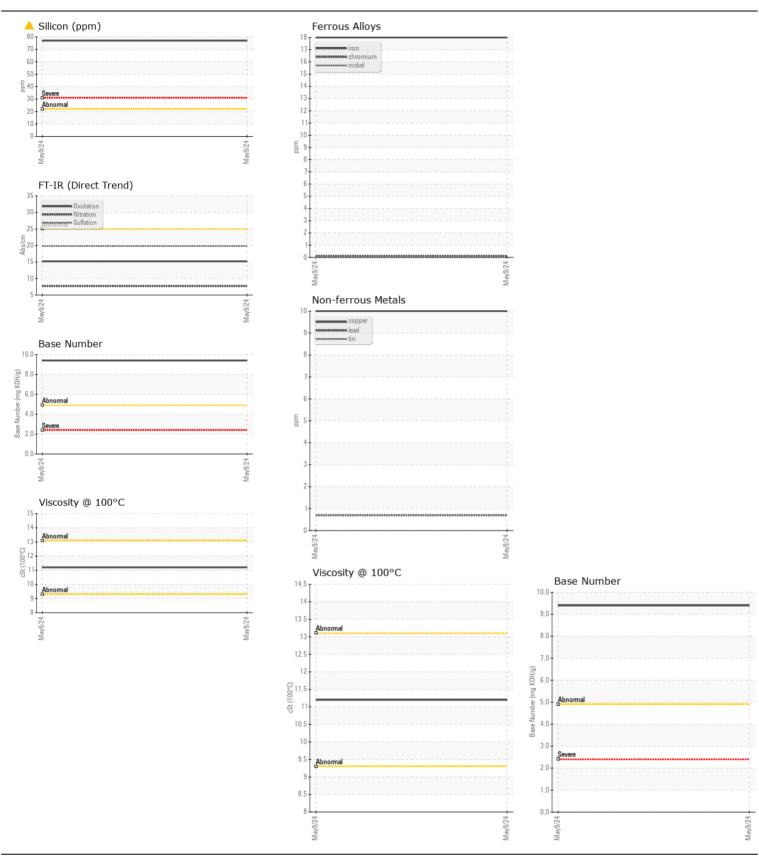
[W08995]

JOHN DEERE 1023E 49004685 (S/N NOT GIVEN)

Diesel Engine

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

ECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History
Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.	Sample Number		Client Info		JR0204496		
	Sample Date		Client Info		09 May 2024		
	Machine Age	hrs	Client Info		63		
	Oil Age	hrs	Client Info		63		
	Filter Age	hrs	Client Info		63		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m		18		
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1		
	Nickel	ppm	ASTM D5185m	>5	0		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m	>31	8		
	Lead	ppm	ASTM D5185m		<1		
	Copper	ppm	ASTM D5185m		10		
	Tin	ppm	ASTM D5185m	>4	<1		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
ONTAMINATION	Silicon	ppm	ASTM D5185m		<u> 77</u>		
Elemental level of silicon (Si) above normal indicating ingress of seal material.	Potassium	ppm	ASTM D5185m		1		
	Fuel		WC Method	>2.1	<1.0		
	Water		WC Method	>0.21	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.2		
	Nitration	Abs/cm	*ASTM D7624	>20	7.7		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	19.8		
	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	>0.21	NEG		
LUID CONDITION	Sodium	ppm	ASTM D5185m	>31	15		
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.	Boron	ppm	ASTM D5185m	- 01	249		
	Barium	ppm	ASTM D5185m		7		
	Molybdenum	ppm	ASTM D5185m		231		
	Manganese	ppm	ASTM D5185m		2		
	Magnesium	ppm	ASTM D5185m		688		
	Calcium	ppm	ASTM D5185m		1941		
	Phosphorus	ppm	ASTM D5185m		953		
	Zinc		ASTM D5185m		1095		
	Sulfur	ppm ppm	ASTM D5185m		4113		
	Oxidation	Abs/.1mm	*ASTM D3163111	>25	15.2		
	Base Number (BN)			>20	9.4		
	Dase Mullipel (DIN)	my KON/9	AOTIVI DZ030		J.4		







Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Lab Number : 06175257

: JR0204496

Received **Tested** Unique Number : 11021310 Diagnosed

: 10 May 2024 : 13 May 2024

: 13 May 2024 - Don Baldridge

JRE - NEWTON **2616 NW BLVD** NEWTON, NC US 28658 Contact: J DEMAS

Test Package : CONST (Additional Tests: TBN) 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.

jdemas@jamesriverequipment.com T: (828)322-4300

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)