WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

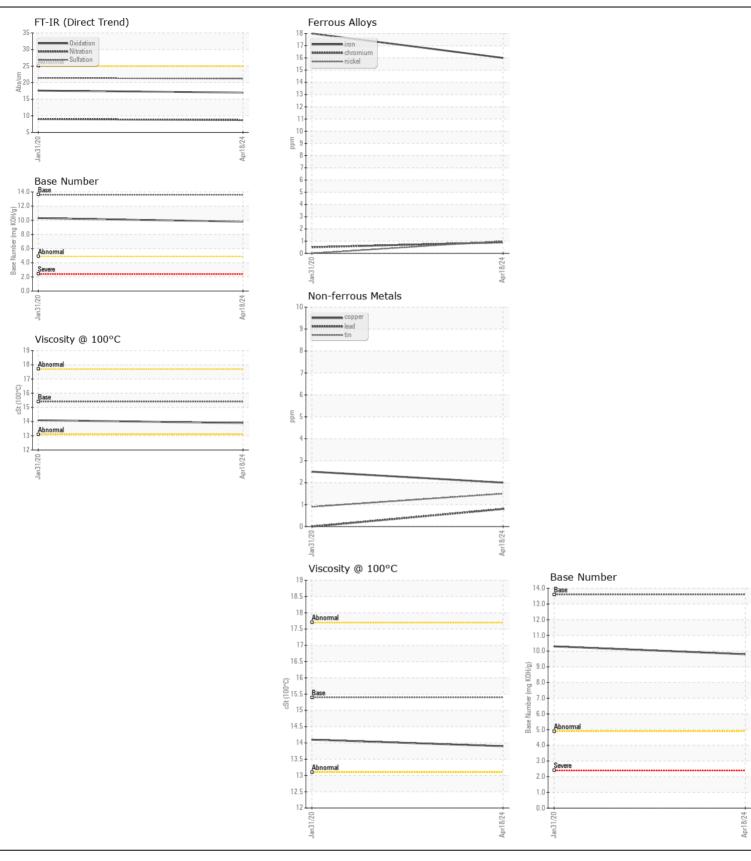
[W21491-READ]

JOHN DEERE 5055E 1PY5055ELHH401695

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0210810	JR0041665	
	Sample Date		Client Info		18 Apr 2024	31 Jan 2020	
	Machine Age	hrs	Client Info		376	180	
	Oil Age	hrs	Client Info		376	110	
	Filter Age	hrs	Client Info		376	110	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>51	16	18	
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m	>11	<1	<1	
	Nickel	ppm	ASTM D5185m	>5	1	0	
	Titanium	ppm	ASTM D5185m		<1	0	
	Silver	ppm	ASTM D5185m	>3	<1	0	
	Aluminum	ppm	ASTM D5185m	>31	5	6	
	Lead	ppm	ASTM D5185m	>26	<1	0	
	Copper	ppm	ASTM D5185m	>26	2	2	
	Tin	ppm	ASTM D5185m	>4	2	<1	
	Vanadium	ppm	ASTM D5185m		<1	0	
	White Metal	scalar	*Visual	NONE	NONE	NONE	
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	9	8	
	Potassium	ppm	ASTM D5185m	>20	3	2	
There is no indication of any contamination in the oil.	Fuel		WC Method	>2.1	<1.0	<1.0	
	Water		WC Method	>0.21	NEG	NEG	
	Glycol		WC Method		NEG	NEG	
	Soot %	%	*ASTM D7844	>3	0.2	0.2	
	Nitration	Abs/cm	*ASTM D7624	>20	8.7	9	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.2	21.4	
	Silt	scalar	*Visual	NONE	NONE	NONE	
	Debris	scalar	*Visual	NONE	NONE	NONE	
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
	Appearance	scalar	*Visual	NORML	NORML	NORML	
	Odor	scalar	*Visual	NORML	NORML	NORML	
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	0	4	
	Boron	ppm	ASTM D5185m		253	268	
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		<1	0	
	Molybdenum	ppm	ASTM D5185m		262	281	
	Manganese	ppm	ASTM D5185m		1	<1	
	Magnesium	ppm	ASTM D5185m		799	897	
	Calcium	ppm	ASTM D5185m		1379	1445	
	Phosphorus	ppm	ASTM D5185m		911	909	
	Zinc	ppm	ASTM D5185m		1036	1004	
	Sulfur	ppm	ASTM D5185m		3134	3582	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.0	17.6	
		1/011/	A CTM DODGC	10.0	0.0	10.0	
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	9.8	10.3	







Certificate L2367

Laboratory Sample No.

Lab Number : 06156730

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0210810

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

Received **Tested** Unique Number : 10992153 Diagnosed

: 23 Apr 2024 Test Package : CONST (Additional Tests: TBN)

: 23 Apr 2024 - Wes Davis

: 22 Apr 2024

JRE - BURKEVILLE 510 WEST COLONIAL DR BURKEVILLE, VA US 23922

Contact: BRANDON BOLLING bbolling@jamesriverequipment.com T: (434)767-5578

* - 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: (434)767-3774