

Oxidation

Visc @ 100°C cSt

Machine Ic **JOHN DEERE 350P 1FF350PACPF000772** Component Diesel Engine JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

RECON	ATION	

DECOMMENDATION							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. No	Sample Number		Client Info		JR0203134		
corrective action is recommended at this time. Resample at the next	Sample Date		Client Info		21 Feb 2024		
service interval to monitor.	Machine Age	hrs	Client Info		546		
	Oil Age	hrs	Client Info		546		
	Filter Age	hrs	Client Info		546		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR	Iron	ppm	ASTM D5185m	<u>\51</u>	42		
MEAN	Chromium	ppm	ASTM D5185m		1		
The copper level is abnormal. In the absence of other significant wear	Nickel	ppm	ASTM D5185m		7		
metals, suspect copper due to sources other than wear (i.e. cooling	Titanium	ppm	ASTM D5185m	20	, <1		
core). All other metal levels are typical for a new component breaking	Silver	ppm	ASTM D5185m	-3	1		
in.	Aluminum	ppm	ASTM D5185m		5		
	Lead	ppm	ASTM D5185m		4		
	Copper	ppm	ASTM D5185m		▲ 81		
	Tin	ppm	ASTM D5185m		2		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
			violaai	HONE			
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	11		
	Potassium	ppm	ASTM D5185m	>20	7		
Fuel content negligible. No other contaminants were detected in the oil.	Fuel	%	ASTM D3524	>2.1	0.2		
	Water		WC Method	>0.21	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.3		
	Nitration	Abs/cm	*ASTM D7624	>20	8.4		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	24.8		
	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		
	O a alfance			04			
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	7		
The oil viscosity is lower than normal. The BN result indicates that	Boron	ppm	ASTM D5185m		221		
there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		2		
	Molybdenum	ppm	ASTM D5185m		243		
	Manganese	ppm	ASTM D5185m		2		
	Magnesium	ppm	ASTM D5185m		788		
	Calcium	ppm	ASTM D5185m		1534		
	Phosphorus	ppm	ASTM D5185m		913		
	Zinc	ppm	ASTM D5185m		1080		
	Sulfur	ppm	ASTM D5185m	05	2862		

Abs/.1mm *ASTM D7414 >25

ASTM D445 15.4

Base Number (BN) mg KOH/g ASTM D2896 13.6

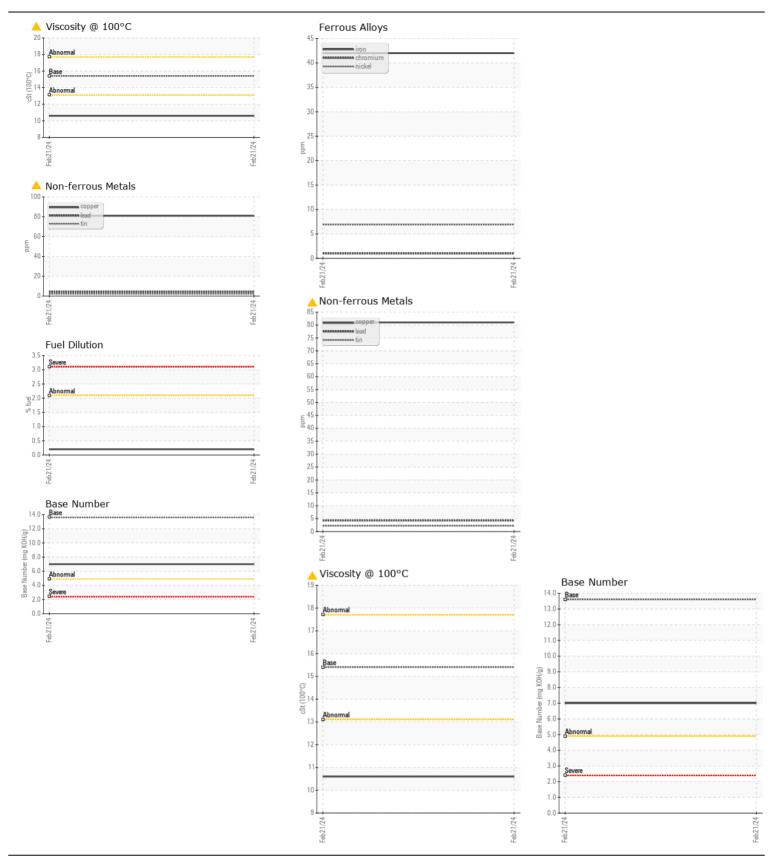
WEAR

CONTAMINATION

20.7

7.0

10.6



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **JRE - MANASSAS PARK** Sample No. : JR0203134 Received 9107 OWENS DRIVE : 23 Feb 2024 Lab Number : 06099028 : 27 Feb 2024 MANASSAS PARK, VA Tested : 27 Feb 2024 - Sean Felton US 20111 Unique Number : 10897258 Diagnosed Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN) Contact: MARC GAUTROIS Certificate L2367 To discuss this sample report, contact Customer Service at 1-800-237-1369. mgautrois@jamesriverequipment.com * - Denotes test methods that are outside of the ISO 17025 scope of accreditation. T: (703)606-7193 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (703)631-4715