

Machine Id **JOHN DEERE 350P 1FF350PAAPF001012 Diesel Engine** JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (--- GAL)

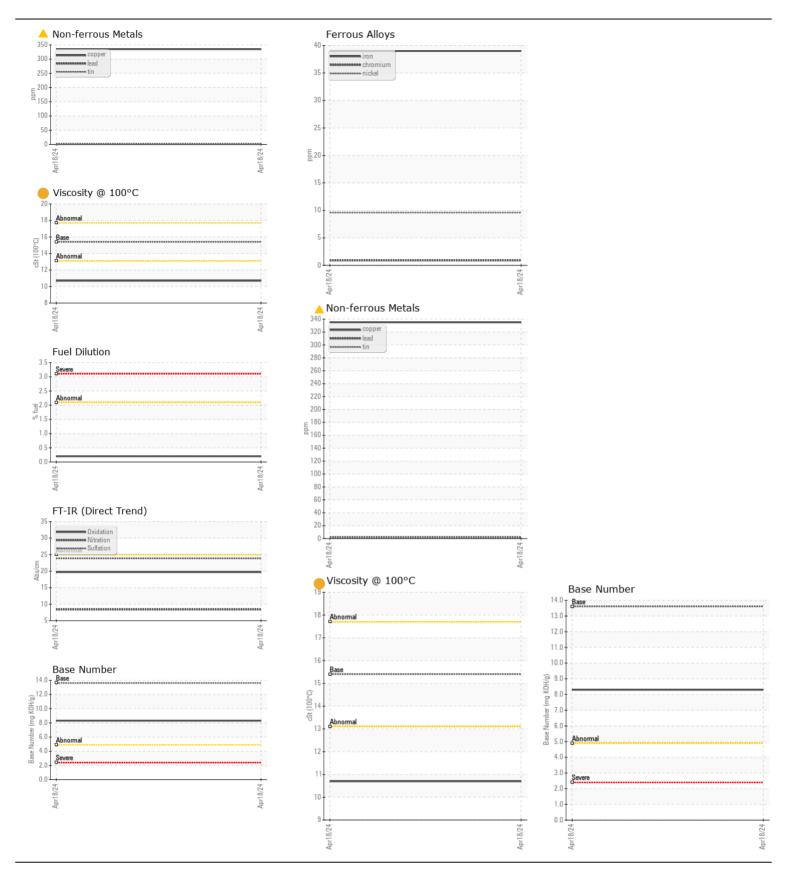
RECOMMENDATION

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
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		JR0211558		
	Sample Date		Client Info		18 Apr 2024		
	Machine Age	hrs	Client Info		436		
	Oil Age	hrs	Client Info		0		
	Filter Age	hrs	Client Info		0		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
WEAR The copper level is abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). All other metal levels are typical for a new component breaking in.	Iron	ppm	ASTM D5185m	>51	39		
	Chromium	ppm	ASTM D5185m	>11	<1		
	Nickel	ppm	ASTM D5185m	>5	10		
	Titanium	ppm	ASTM D5185m		0		
	Silver	ppm	ASTM D5185m	>3	2		
	Aluminum	ppm	ASTM D5185m	>31	6		
	Lead	ppm	ASTM D5185m	>26	1		
	Copper	ppm	ASTM D5185m	>26	A 335		
	Tin	ppm	ASTM D5185m	>4	2		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION Fuel content negligible. There is no indication of any contamination in the oil.	Silicon	ppm	ASTM D5185m	>22	10		
	Potassium	ppm	ASTM D5185m	>20	9		
	Fuel	%	ASTM D3524	>2.1	0.2		
	Water		WC Method	>0.21	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.2		
	Nitration	Abs/cm	*ASTM D7624	>20	8.4		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	23.8		
	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		
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	7		
	Boron	ppm	ASTM D5185m		273		
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.	Barium	ppm	ASTM D5185m		4		
	Molybdenum	ppm	ASTM D5185m		223		
	Manganese	ppm	ASTM D5185m		3		
	Magnesium	ppm	ASTM D5185m		786		
	Calcium	ppm	ASTM D5185m		1452		
	Phosphorus	ppm	ASTM D5185m		905		
	Zinc	ppm	ASTM D5185m		1035		
	Sulfur	ppm	ASTM D5185m		3271		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	19.7		
	Base Number (BN)				8.3		
		gittering			- · · · -		

ASTM D445 15.4

Visc @ 100°C cSt

10.7



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **JRE - ASHLAND** Sample No. : JR0211558 Received 11047 LEADBETTER RD : 22 Apr 2024 Lab Number : 06155664 Tested : 25 Apr 2024 ASHLAND, VA Unique Number : 10991087 : 25 Apr 2024 - Don Baldridge US 23005 Diagnosed Test Package : CONST (Additional Tests: FuelDilution, PercentFuel, TBN) Contact: DAVID ZIEG Certificate L2367 dzieg@jamesriverequipment.com 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. T: (804)798-6001 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F: (804)798-0292

Contact/Location: DAVID ZIEG - JAMASH Page 2 of 2