

## [W14010] JOHN DEERE 350P 1FF350PAHNF000460 Component Diesel Engine Fluid JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (7 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. ( Customer Sample Comment: W14010)	Sample Number		Client Info		JR0173349		
	Sample Date		Client Info		10 Jul 2023		
	Machine Age	hrs	Client Info		550		
	Oil Age	hrs	Client Info		550		
	Filter Age	hrs	Client Info		550		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				ABNORMAL		
				F 4			
VEAR	Iron	ppm	ASTM D5185m		44		
The copper level is abnormal. All other metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m		<1		
	Nickel	ppm	ASTM D5185m	>5	5		
	Titanium	ppm	ASTM D5185m	0	<1		
	Silver	ppm	ASTM D5185m		<1		
	Aluminum	ppm	ASTM D5185m		5		
	Lead	ppm	ASTM D5185m		2		
	Copper	ppm	ASTM D5185m		<mark>▲</mark> 98		
	Tin	ppm	ASTM D5185m	>4	2		
	Vanadium	ppm	ASTM D5185m	NONE	0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	12		
	Potassium	ppm	ASTM D5185m		10		
Fuel content negligible. There is no indication of any contamination in the oil.	Fuel	%	ASTM D3524		0.4		
	Water		WC Method		NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	0.3		
	Nitration	Abs/cm	*ASTM D7624	>20	8.9		
	Sulfation	Abs/.1mm	*ASTM D7415		25.4		
	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	2		
The ail viscosity is lower than normal. The DN result indicates that	Boron	ppm	ASTM D5185m		162		
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		0		
	Molybdenum	ppm	ASTM D5185m		245		
	Manganese	ppm	ASTM D5185m		2		
	Magnesium	ppm	ASTM D5185m		735		
	Calcium	ppm	ASTM D5185m		1410		
	Phosphorus	ppm	ASTM D5185m		800		
	Zinc	ppm	ASTM D5185m		1005		
	Sulfur	ppm	ASTM D5185m		2933		
	Oxidation	Abs/.1mm	*ASTM D7414	>25	22.6		
	D N I (DN)	1/011/	A OTH DOCCO	10.0			

7.5

10.7

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

ASTM D445 15.4

Visc @ 100°C cSt



