

## Machine Id JOHN DEERE 8320 A-3 (S/N RG8320P011787) Component Diesel Engine Fluid

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

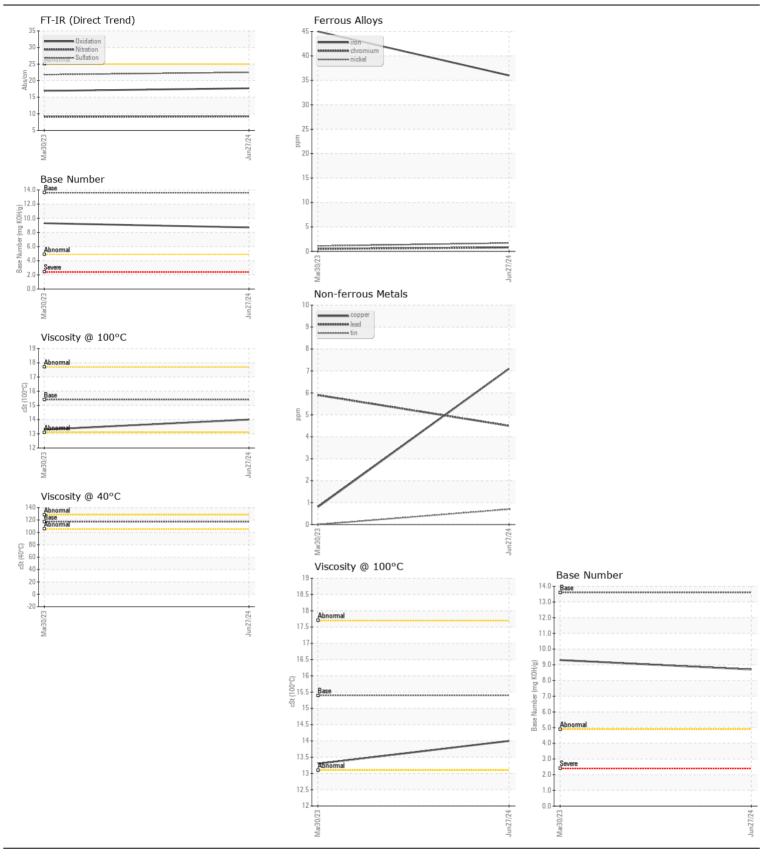
	GAL)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0211520	JR0164875	
	Sample Date		Client Info		27 Jun 2024	30 Mar 2023	
	Machine Age	hrs	Client Info		541	2374	
	Oil Age	hrs	Client Info		541	0	
	Filter Age	hrs	Client Info		541	0	
	Oil Changed		Client Info		Changed	Changed	
	Filter Changed		Client Info		Changed	Changed	
	Sample Status				NORMAL	NORMAL	
WEAR	Iron	ppm	ASTM D5185m	>51	36	45	
	Chromium	ppm	ASTM D5185m	>11	<1	<1	
All component wear rates are normal.	Nickel	ppm	ASTM D5185m	>5	2	1	
	Titanium	ppm	ASTM D5185m		<1	0	
	Silver	ppm	ASTM D5185m	>3	<1	0	
	Aluminum	ppm	ASTM D5185m	>31	5	2	
	Lead	ppm	ASTM D5185m	>26	4	6	
	Copper	ppm	ASTM D5185m	>26	7	<1	
	Tin	ppm	ASTM D5185m	>4	<1	0	
	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	12	17	
	Potassium	ppm	ASTM D5185m	>20	3	0	
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	0.5	0.6	
	Nitration	Abs/cm	*ASTM D7624	>20	9.2	9.1	
	Sulfation	Abs/.1mm	*ASTM D7415	>30	22.5	21.8	
	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	<1	<1	
	Boron	ppm	ASTM D5185m		126	8	
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		198	73	
	Manganese	ppm	ASTM D5185m		<1	<1	
	Magnesium	ppm	ASTM D5185m		832	973	
	Calcium	ppm	ASTM D5185m		1491	1283	
	Phosphorus	ppm	ASTM D5185m		946	1029	
	Zinc	ppm	ASTM D5185m		1186	1382	
	Sulfur	ppm	ASTM D5185m		2792	3806	
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.7	16.9	
	Base Number (BN)				8.7	9.3	
		ing itoring		10.0	0.1	0.0	

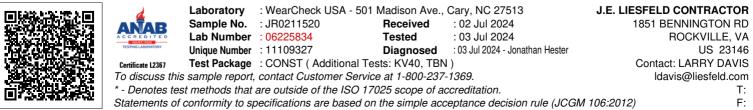
Visc @ 100°C cSt

ASTM D445 15.4

13.3

14.0





Contact/Location: LARRY DAVIS - JELROC Page 2 of 2