

## Machine Id SENNEBOGEN 830M-T 830.0.2922

## **Diesel Engine**

## JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (24 QTS)

	L <del>T</del> ((13)						
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0214038	JR0213793	JR0208847
	Sample Date		Client Info		02 Jul 2024	05 Jun 2024	08 May 2024
	Machine Age	hrs	Client Info		11681	11185	10667
	Oil Age	hrs	Client Info		496	518	507
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	NORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	7	9	11
All component wear rates are normal.	Chromium	ppm	ASTM D5185m	>20	0	0	0
	Nickel	ppm	ASTM D5185m	>4	0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m	>20	4	5	2
	Lead	ppm	ASTM D5185m	>40	0	<1	0
	Copper	ppm	ASTM D5185m	>330	0	0	0
	Tin	ppm	ASTM D5185m	>15	<1	<1	<1
	Vanadium	ppm	ASTM D5185m		<1	<1	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6	7	6
	Potassium	ppm	ASTM D5185m		1	3	0
There is no indication of any contamination in the oil.	Fuel	1-1-	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624		8.0	8.0	7.8
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.3	21.2	21.1
	Silt	scalar	*Visual	NONE	NONE	NONE	NONE
	Debris	scalar	*Visual	NONE	NONE	NONE	NONE
	Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
	Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
	Odor	scalar	*Visual	NORML	NORML	NORML	NORML
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m		2	2	1
	Boron	ppm	ASTM D5185m		224	311	269
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		0	<1	<1
	Molybdenum	ppm	ASTM D5185m		243	245	256
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		839	823	829
	Calcium	ppm	ASTM D5185m		1434	1390	1521
	Phosphorus	ppm	ASTM D5185m		918	930	943
	Zinc	ppm	ASTM D5185m		1094	1083	1119
	Sulfur	ppm	ASTM D5185m		3420	3418	3554
	Oxidation	Abs/.1mm	*ASTM D7414	>25	15.8	15.9	15.8
	Base Number (BN)				8.8	8.7	8.4
		ing non g	.10111102000	10.0	0.0	0.7	0.1

Visc @ 100°C cSt

ASTM D445 15.4

12.9

12.8

13.0

