WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

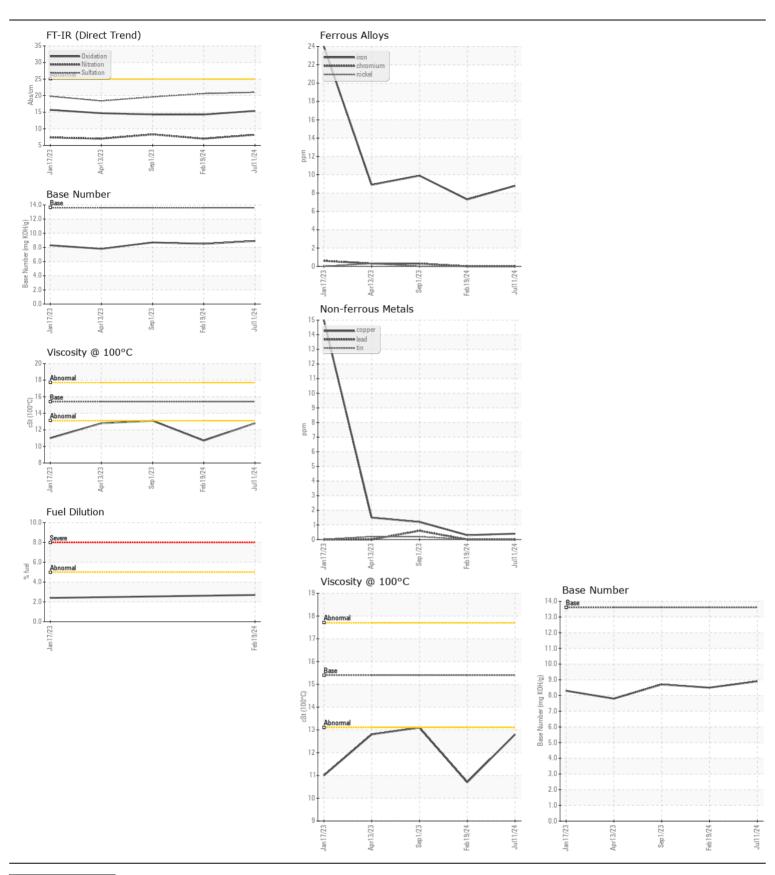
Machine Id

SENNEBOGEN 825M 825.0.3756

Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (25 QTS)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		JR0226836	JR0203162	JR0184141
	Sample Date		Client Info		11 Jul 2024	19 Feb 2024	01 Sep 2023
	Machine Age	hrs	Client Info		2483	1982	1456
	Oil Age	hrs	Client Info		501	526	482
	Filter Age	hrs	Client Info		0	0	482
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	ABNORMAL	NORMAL
WEAR	Iron	ppm	ASTM D5185m	>100	9	7	10
	Chromium	ppm	ASTM D5185m		0	0	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	0
	Titanium	ppm	ASTM D5185m		0	0	0
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		2	2	0
	Lead		ASTM D5185m		0	0	<1
	Copper	ppm	ASTM D5185m		<1	<1	1
	Tin	ppm	ASTM D5185m		0	0	<1
	Vanadium	ppm	ASTM D5185m	/10	0	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal		*Visual	NONE	NONE	NONE	
<u></u>		scalar	VISUAI	INOINE	INONE	INOINE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6	5	8
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	<1	0	2
	Fuel	%	ASTM D3524	>5	<1.0	<u> </u>	<1.0
	Water		WC Method	>0.2	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.1	0.1	0.1
	Nitration	Abs/cm	*ASTM D7624	>20	8.2	7.0	8.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	21.0	20.6	19.6
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
FLUID CONDITION	Sodium	nnm	ASTM D5185m		2	<1	2
LOID GONDITION	Boron	ppm	ASTM D5185m		247	136	249
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	0
	Molybdenum	ppm	ASTM D5185m		237	134	242
	Manganese		ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		802	501	918
	Calcium		ASTM D5185m		1515	2386	1667
	Phosphorus	ppm	ASTM D5185m		903	1023	938
	Zinc	ppm	ASTM D5185m		1046	1254	1179
	Sulfur	ppm	ASTM D5185m			3620	3949
	Oxidation	ppm Abs/1mm		> 2F	3413 15.4		
	Oxidation	Abs/.1mm	*ASTM D7414		15.4	14.3	14.3 8.7
	Base Number (BN)	mg KOH/g	ASTM D2896	136	8.9	8.5	8 /







Certificate L2367

Laboratory Sample No.

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0226836 Lab Number : 06235701 Unique Number : 11124535

Received : 15 Jul 2024 **Tested** Diagnosed

: 16 Jul 2024

: 16 Jul 2024 - Don Baldridge

Test Package : CONST (Additional Tests: FuelDilution, TBN)

Contact: DON VEST dvest@jamesriverequipment.com

JRE - MANASSAS PARK

9107 OWENS DRIVE

MANASSAS PARK, VA

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. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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US 20111