**WEAR** CONTAMINATION **FLUID CONDITION** 

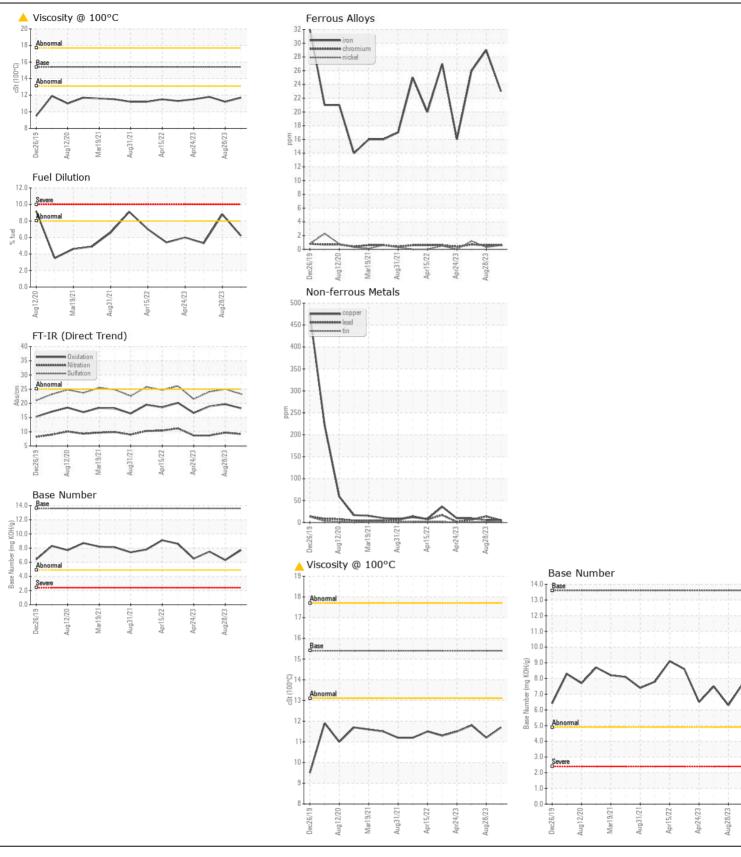
**NORMAL NORMAL ABNORMAL** 

[05W43192]

## **JOHN DEERE 844L 1DW844LXEKF697338**

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0189900	JR0183722	JR017617
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		24 Oct 2023	28 Aug 2023	22 Jun 202
	Machine Age	hrs	Client Info		7483	7071	6442
	Oil Age	hrs	Client Info		412	0	481
	Filter Age	hrs	Client Info		412	0	481
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				ABNORMAL	ABNORMAL	ABNORMA
WEAR	Iron	nnm	ASTM D5185m	 - 51	23	29	26
WEAR	Chromium	ppm	ASTM D5185m		23 <1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1	<1	1
	Titanium	ppm	ASTM D5185m	>5	<1	0	<1
	Silver		ASTM D5185m	~3	0	0	0
	Aluminum	ppm	ASTM D5185m		10	8	11
	Lead	ppm	ASTM D5185m		5	14	6
	Copper	ppm	ASTM D5185m		6	5	9
	Tin	ppm	ASTM D5185m		1	2	2
	Vanadium	ppm	ASTM D5185m		0	0	0
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	15	11	17
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	3	2	2
	Fuel	%	ASTM D3524	>8.0	6.2	<u> </u>	<b>△</b> 5.3
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844		0.4	0.6	0.4
	Nitration	Abs/cm	*ASTM D7624	>20	9.2	9.7	8.7
	Sulfation	Abs/.1mm	*ASTM D7415		23.3	25.0	24.1
	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	NORM
	Odor	scalar	*Visual	NORML	NORML	NORML	NORM
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	3	6	4
	Boron	ppm	ASTM D5185m		138	43	188
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.	Barium	ppm	ASTM D5185m		4	0	0
	Molybdenum	ppm	ASTM D5185m		249	222	234
	Manganese	ppm	ASTM D5185m		<1	<1	<1
	Magnesium	ppm	ASTM D5185m		738	746	729
	Calcium	ppm	ASTM D5185m		1337	1457	1447
	Phosphorus	ppm	ASTM D5185m		765	734	960
	Zinc	ppm	ASTM D5185m		983	946	1161
	Sulfur	ppm	ASTM D5185m		3283	3520	3510
	Oxidation	Abs/.1mm	*ASTM D7414	>25	18.3	19.7	19.0
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.7	6.3	7.5
	Visc @ 100°C	cSt	ASTM D445		<u></u> 11.7	<u> </u>	<b>11.8</b>







Certificate L2367

Report Id: SUPGAI [WUSCAR] 05989670 (Generated: 05/10/2024 07:11:41) Rev: 1

Laboratory Sample No.

Lab Number : 05989670 Unique Number : 10712332

: JR0189900

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested** 

Diagnosed

: 27 Oct 2023 : 31 Oct 2023 - Jonathan Hester

: 25 Oct 2023

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

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

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. **SUPERIOR PAVING CORP** 

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