WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

OIL ANALYSIS REPORT

Machine Id

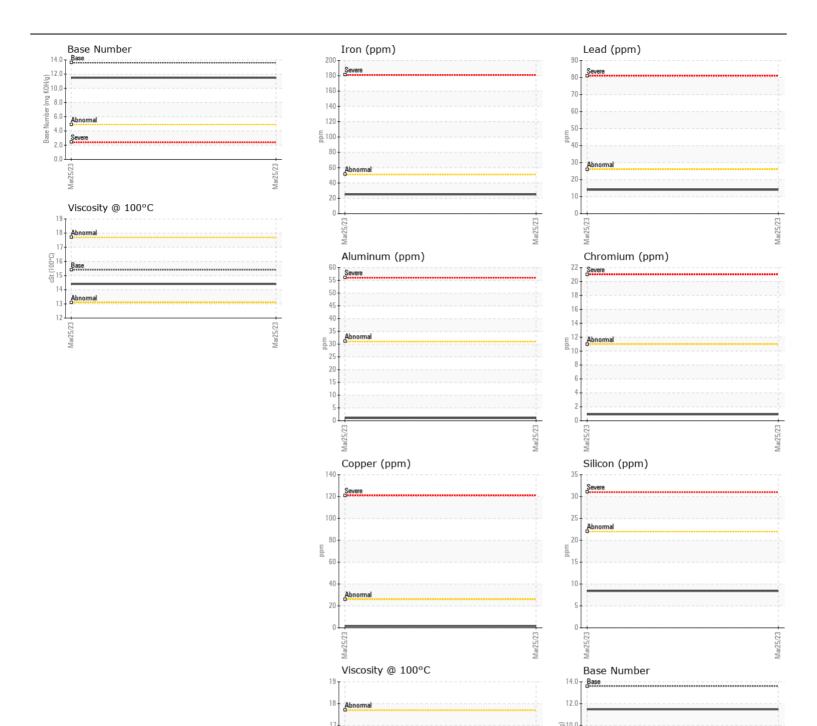
JOHN DEERE 9870 JOHN DEERE 9870 (S/N 1H09870SEB074091)

Component Diesel Engine

JOHN DEERE ENGINE OIL PLUS 50 II 15W40 (11 GAL)

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		TR05817158		
	Sample Date		Client Info		25 Mar 2023		
	Machine Age	hrs	Client Info		2617		
	Oil Age	hrs	Client Info		250		
	Filter Age	hrs	Client Info		250		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
VEAR	Iron	ppm	ASTM D5185m	>51	25		
WEATT.	Chromium	ppm	ASTM D5185m		<1		
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		<1		
	Titanium	ppm	ASTM D5185m	/5	0		
	Silver		ASTM D5185m	~3	0		
	Aluminum	ppm	ASTM D5185m		1		
		ppm			14		
	Lead	ppm	ASTM D5185m		2		
	Copper Tin	ppm	ASTM D5185m ASTM D5185m				
	Vanadium	ppm		>4	<1 <1		
	White Metal	ppm	ASTM D5185m	NONE			
		scalar	*Visual	NONE	NONE		
<u></u>	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	8		
There is no indication of any contamination in the oil.	Potassium	ppm	ASTM D5185m	>20	2		
	Fuel		WC Method	>5	<1.0		
	Water		WC Method	>0.21	NEG		
	Glycol		WC Method		NEG		
	Soot %	%	*ASTM D7844	>3	1.1		
	Nitration	Abs/cm	*ASTM D7624	>20	10.2		
	Sulfation	Abs/.1mm	*ASTM D7415	>30	24.3		
	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		
I LUD CONDITION	Sodium	nnm	ASTM D5185m	√ 21	4		
FLUID CONDITION		ppm		>31			
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Boron	ppm	ASTM D5185m		186		
	Barium Molybdenum	ppm	ASTM D5185m		0 244		
	•	ppm	ASTM D5185m ASTM D5185m				
	Manganese	ppm			<1 704		
	Magnesium	ppm	ASTM D5185m		794		
	Calcium	ppm	ASTM D5185m		1335		
	Phosphorus	ppm	ASTM D5185m		805		
	Zinc	ppm	ASTM D5185m		972		
	Sulfur	ppm Abo/1mm	ASTM D5185m	. 05	2619		
	Oxidation	Abs/.1mm mg KOH/g	*ASTM D7414 ASTM D2896		19.3 11.48		
	Base Number (BN)						

Contact/Location: RONALD GROGAN - LARLAM





Certificate L2367

Laboratory Sample No.

: TR05817158 Lab Number : 05817158 Unique Number: 10419950 Test Package : MOB 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 11 Apr 2023 : 13 Apr 2023 **Tested**

: 13 Apr 2023 - Wes Davis Diagnosed

(mg KOH/

LARSON FARMS INC 1752 GIBSON RD LAMONT, WA

US 99017 Contact: RONALD GROGAN

To discuss this sample report, contact Customer Service at 1-800-827-0711.

₹ 15

* - 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)

T:

F: