WEAR CONTAMINATION FLUID CONDITION

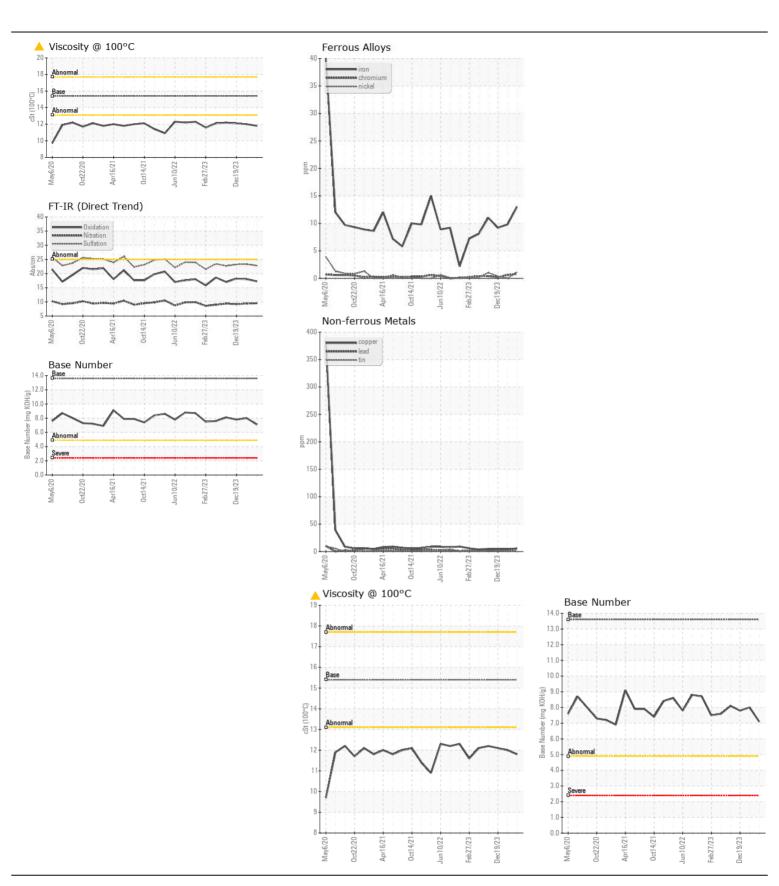
NORMAL NORMAL MARGINAL

[W52374 CHANEY]

JOHN DEERE 844L 1DW844LXVLF705479

Diesel Engine

RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		JR0212057	JR0199645	JR017958
	Sample Date		Client Info		10 Jun 2024	12 Mar 2024	19 Dec 202
	Machine Age	hrs	Client Info		10489	9951	9473
	Oil Age	hrs	Client Info		0	0	0
	Filter Age	hrs	Client Info		0	0	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				MARGINAL	MARGINAL	MARGINA
WEAR	Iron	ppm	ASTM D5185m	>51	13	10	9
	Chromium	ppm	ASTM D5185m		<1	<1	<1
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		1	0	<1
	Titanium	ppm	ASTM D5185m		<1	0	<1
	Silver	ppm	ASTM D5185m	>3	<1	0	0
	Aluminum	ppm	ASTM D5185m		6	5	4
	Lead	ppm	ASTM D5185m		5	3	4
	Copper	ppm	ASTM D5185m		6	4	5
	Tin	ppm	ASTM D5185m		2	<1	2
	Vanadium	ppm	ASTM D5185m		<1	0	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	-22	9	8	6
	Potassium	ppm	ASTM D5185m		3	3	<1
There is no indication of any contamination in the oil.	Fuel	ppiii	WC Method		<1.0	<1.0	4.4
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	20.LT	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.2	0.3	0.2
	Nitration	Abs/cm	*ASTM D7624	>20	9.5	9.4	9.2
	Sulfation	Abs/.1mm	*ASTM D7415		22.8	23.3	23.2
	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	NORN
	Odor	scalar	*Visual	NORML	NORML	NORML	NORN
	Emulsified Water	scalar	*Visual	>0.21	NEG	NEG	NEG
FLUID CONDITION	Sodium	ppm	ASTM D5185m	>31	10	6	4
LOID CONDITION	Boron	ppm	ASTM D5185m	701	134	179	153
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.	Barium	ppm	ASTM D5185m		2	1	<1
	Molybdenum	ppm	ASTM D5185m		252	252	253
	Manganese	ppm	ASTM D5185m		<1	0	<1
	Magnesium	ppm	ASTM D5185m		731	815	845
	Calcium	ppm	ASTM D5185m		1690	1427	1419
	Phosphorus	ppm	ASTM D5185m		898	922	888
	Zinc	ppm	ASTM D5185m		1102	1057	1029
	Sulfur	ppm	ASTM D5185m		3792	3355	3186
	Oxidation	Abs/.1mm	*ASTM D7414	>25	17.2	18.0	18.2
	Base Number (BN)		ASTM D2896		7.1	8.0	7.8
	Dasc Nulliber (DIV)	my Normy	AOTHI DE030	10.0	7.1	0.0	7.0







Certificate L2367

Laboratory

Sample No.

Lab Number : 06213078 Unique Number : 11085942

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0212057

Received **Tested** Diagnosed

: 18 Jun 2024 : 19 Jun 2024

: 20 Jun 2024 - Don Baldridge

11047 LEADBETTER RD ASHLAND, VA US 23005

Test Package : CONST (Additional Tests: TBN) Contact: DAVID ZIEG To discuss this sample report, contact Customer Service at 1-800-237-1369. dzieg@jamesriverequipment.com T: (804)798-6001

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. F: (804)798-0292 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

JRE - ASHLAND