WEAR CONTAMINATION **FLUID CONDITION**

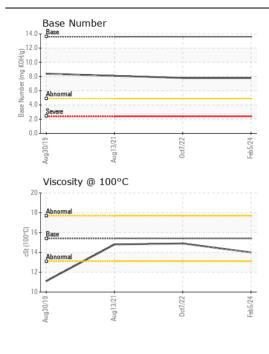
NORMAL NORMAL NORMAL

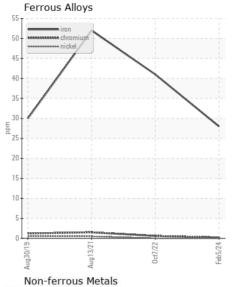
Machine Id

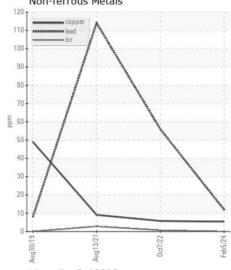
JOHN DEERE 340611

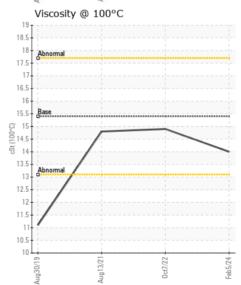
Diesel Engine

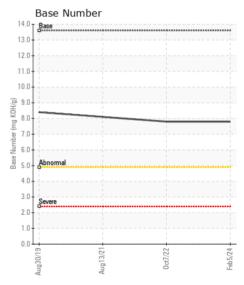
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
	Sample Number		Client Info		JR0197648	JR0146040	JR009916
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Date		Client Info		05 Feb 2024	07 Oct 2022	13 Aug 202
	Machine Age	hrs	Client Info		3827	3419	2258
	Oil Age	hrs	Client Info		408	2258	1247
	Filter Age	hrs	Client Info		0	0	1247
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				NORMAL	ABNORMAL	ABNORMA
WEAR	Iron	ppm	ASTM D5185m	\51	28	41	52
	Chromium	ppm	ASTM D5185m		<1	<1	2
All component wear rates are normal.	Nickel	ppm	ASTM D5185m		0	0	<1
	Titanium	ppm	ASTM D5185m		3	20	6
	Silver	ppm	ASTM D5185m	>3	0	0	0
	Aluminum	ppm	ASTM D5185m		6	7	4
	Lead	ppm	ASTM D5185m		12	<u>^</u> 56	<u> </u>
	Copper	ppm	ASTM D5185m		5	6	9
	Tin	ppm	ASTM D5185m		0	<1	3
	Vanadium	ppm	ASTM D5185m		<1	<1	<1
	White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
CONTAMINATION	Silicon	ppm	ASTM D5185m	\22	9	10	8
CONTAMINATION	Potassium	ppm	ASTM D5185m		4	0	3
There is no indication of any contamination in the oil.	Fuel	ррпп	WC Method		<1.0	<1.0	<1.0
	Water		WC Method		NEG	NEG	NEG
	Glycol		WC Method	7 0.2 .	NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.5	1	0.5
	Nitration	Abs/cm	*ASTM D7624	>20	10.0	12.6	12.3
	Sulfation	Abs/.1mm	*ASTM D7415	>30	24.0	31.1	32.4
	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	0	2	5
EOIB CONDITION	Boron	ppm	ASTM D5185m	701	207	32	61
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	0	0
	Molybdenum	ppm	ASTM D5185m		267	178	198
	Manganese	ppm	ASTM D5185m		0	<1	1
	Magnesium	ppm	ASTM D5185m		802	647	661
	Calcium	ppm	ASTM D5185m		1438	1674	1993
	Phosphorus	ppm	ASTM D5185m		842	898	1004
	Zinc	ppm	ASTM D5185m		1068	1149	1226
	Sulfur	ppm	ASTM D5185m		2900	3423	2835
	Oxidation	Abs/.1mm	*ASTM D7414	>25	18.3	25.3	25
	Base Number (BN)	mg KOH/g	ASTM D2896	13.6	7.8	7.8	8.1
				15.4		14.9	14.8













Laboratory Sample No. Unique Number : 10874556

Lab Number : 06087111

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0197648

Received Tested Diagnosed

: 13 Feb 2024 : 14 Feb 2024

: 14 Feb 2024 - Don Baldridge

JRE - GARNER 4161 AUBURN CHURCH RD GARNER, NC

US 27529 Contact: RALEIGH SHOP

F: (919)779-5432

Test Package : CONST (Additional Tests: TBN) To discuss this sample report, contact Customer Service at 1-800-237-1369.

sean.betts@jamesriverequipment.com;catherine.anastasio@wearcheck.com T: (919)614-2260

* - 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)