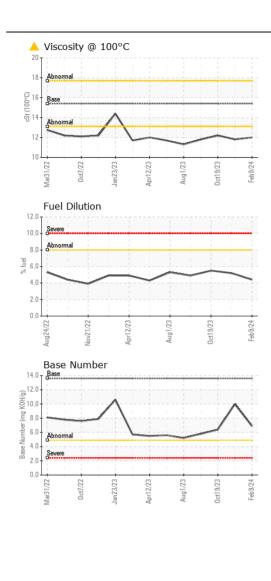
WEAR CONTAMINATION **FLUID CONDITION**

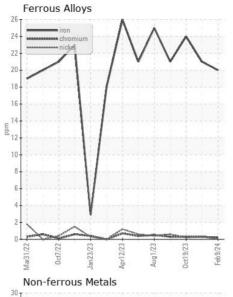
NORMAL NORMAL MARGINAL

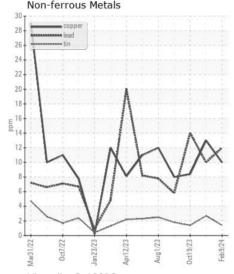
JOHN DEERE 844L AH 1DW844LAEML712419

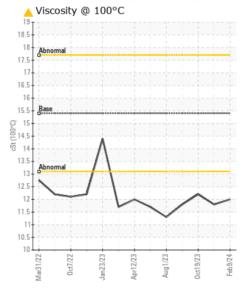
Diesel Engine

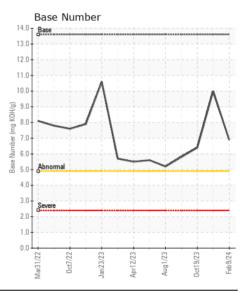
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.	Sample Number		Client Info		JR0202261	JR0197981	JR018132
	Sample Date		Client Info		09 Feb 2024	08 Dec 2023	19 Oct 202
	Machine Age	hrs	Client Info		8036	7540	7039
	Oil Age	hrs	Client Info		496	501	490
	Filter Age	hrs	Client Info		496	501	0
	Oil Changed		Client Info		Changed	Changed	Changed
	Filter Changed		Client Info		Changed	Changed	Changed
	Sample Status				MARGINAL	ABNORMAL	ABNORMA
MEAD	lvon		ACTM DE10Em	. 51	00	04	0.4
VEAR	Iron	ppm	ASTM D5185m		20	21	24
All component wear rates are normal.	Chromium	ppm	ASTM D5185m		<1	<1	<1
	Nickel	ppm	ASTM D5185m	>5	0	<1	<1
	Titanium	ppm	ASTM D5185m	0	<1	<1	<1
	Silver	ppm	ASTM D5185m		0	0	0 7
	Aluminum	ppm	ASTM D5185m		4	5	
	Lead	ppm	ASTM D5185m ASTM D5185m		12 10	10 13	14
	Copper Tin	ppm	ASTM D5185m		10	3	1
	Vanadium	ppm	ASTM D5185m	>4	0	0	0
	White Metal	ppm scalar	*Visual	NONE	NONE	NONE	NONE
	Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
<u></u>	Tellow Metal	Scalai	visuai		INOINE	INOINL	NONL
CONTAMINATION	Silicon	ppm	ASTM D5185m	>22	8	8	13
	Potassium	ppm	ASTM D5185m	>20	3	<1	5
Fuel content negligible. No other contaminants were detected in the oil.	Fuel	%	ASTM D3524	>8.0	4.4	5.2	5.5
	Water		WC Method	>0.21	NEG	NEG	NEG
	Glycol		WC Method		NEG	NEG	NEG
	Soot %	%	*ASTM D7844	>3	0.5	0.2	0.6
	Nitration	Abs/cm	*ASTM D7624	>20	10.2	7.6	10.6
	Sulfation	Abs/.1mm	*ASTM D7415	>30	25.2	19.4	25.3
	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
LUD CONDITION	Cadium		ACTM DE10Em	. 01	2	0	7
FLUID CONDITION	Sodium Boron	ppm	ASTM D5185m ASTM D5185m	>31	2 85	3 60	38
The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil.	Barium	ppm	ASTM D5185m		0	0	0
	Molybdenum	ppm	ASTM D5185m		253	83	225
	Manganese	ppm	ASTM D5185m		0	<1	<1
	Magnesium	ppm	ASTM D5185m		749	325	732
	Calcium	ppm	ASTM D5185m		1349	1670	1339
	Phosphorus	ppm	ASTM D5185m		787	905	752
	Zinc	ppm	ASTM D5185m		1011	1131	940
	Sulfur	ppm	ASTM D5185m		2749	3201	2741
	Oxidation	Abs/.1mm	*ASTM D7414	>25	20.4	14.5	20.4
	Base Number (BN)				6.9	10.0	6.4
	Visc @ 100°C	my nong	. 10 1111 DE000	15.4	0.0	▲ 11.8	▲ 12.2













Certificate L2367

Report Id: MARGARJR [WUSCAR] 06087092 (Generated: 02/15/2024 21:55:32) Rev: 1

Laboratory Sample No.

Lab Number : 06087092 Unique Number : 10874537

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : JR0202261

Received : 13 Feb 2024 **Tested** Diagnosed

: 15 Feb 2024

: 15 Feb 2024 - Doug Bogart

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

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)

GARNER - MARTIN MARIETTA

1111 E GARNER RD GARNER, NC US 27529

Contact: JASON GILMORE jason.gilmore@martinmarietta.com

T: F: