



# OIL ANALYSIS REPORT

Sample Rating Trend

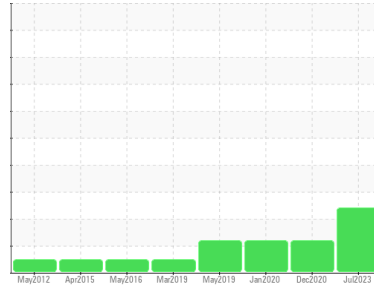
FUEL



Machine Id  
**AG BAG INT 10000 BAGGER 1 (S/N MHB10012542-8)**

Component  
**Diesel Engine**

Fluid  
**TRC MOLY XL PRO-SPEC IV 15W40 (--- GAL)**



## DIAGNOSIS

### Recommendation

We advise that you check the fuel injection system. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition.

### Wear

All component wear rates are normal.

### Contamination

There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil.

### Fluid Condition

The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>TR0000920</b>	TR05154035	TR04894764
Sample Date	Client Info		<b>11 Jul 2023</b>	23 Dec 2020	14 Jan 2020
Machine Age	hrs	Client Info	<b>6581</b>	0	6581
Oil Age	hrs	Client Info	<b>0</b>	0	1245
Oil Changed	Client Info		<b>N/A</b>	Not Changd	Not Changd
Sample Status			<b>SEVERE</b>	ABNORMAL	ABNORMAL

## CONTAMINATION

	method	limit/base	current	history1	history2
Glycol	WC Method		<b>NEG</b>	NEG	NEG

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >51	<b>6</b>	4	3
Chromium	ppm	ASTM D5185m >11	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m >5	<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m >3	<b>0</b>	<1	<1
Aluminum	ppm	ASTM D5185m >31	<b>1</b>	<1	2
Lead	ppm	ASTM D5185m >26	<b>3</b>	2	2
Copper	ppm	ASTM D5185m >26	<b>15</b>	12	11
Tin	ppm	ASTM D5185m >4	<b>&lt;1</b>	<1	<1
Antimony	ppm	ASTM D5185m	<b>---</b>	0	0
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	3	<1
Barium	ppm	ASTM D5185m	<b>2</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>159</b>	159	145
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>699</b>	721	691
Calcium	ppm	ASTM D5185m 1300	<b>1432</b>	1487	1409
Phosphorus	ppm	ASTM D5185m	<b>1000</b>	1042	969
Zinc	ppm	ASTM D5185m 1300	<b>1206</b>	1198	994
Sulfur	ppm	ASTM D5185m	<b>4303</b>	3665	4575

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >22	<b>4</b>	3	2
Sodium	ppm	ASTM D5185m >31	<b>3</b>	3	4
Potassium	ppm	ASTM D5185m >20	<b>&lt;1</b>	0	<1
Fuel	%	ASTM D3524 >2.1	<b>7.4</b>	3.3	4.9

## INFRA-RED

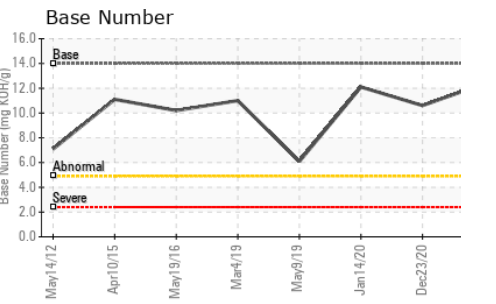
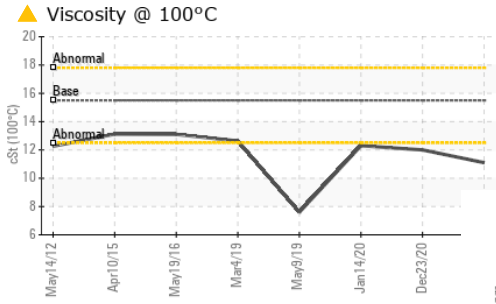
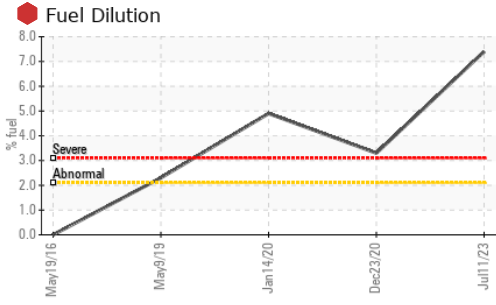
	method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844 >3	<b>0.1</b>	0.1	0.1
Nitration	Abs/cm	*ASTM D7624 >20	<b>8.5</b>	7.8	7.4
Sulfation	Abs/.1mm	*ASTM D7415 >30	<b>17.3</b>	17.3	16.8

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414 >25	<b>13.2</b>	12.7	12.3
Base Number (BN)	mg KOH/g	ASTM D2896 14	<b>12.36</b>	10.6	12.1



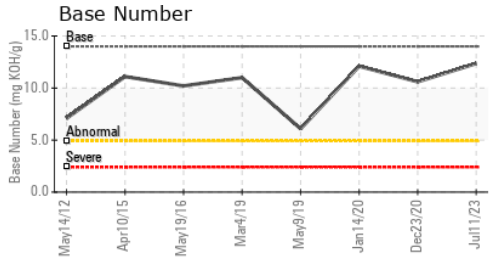
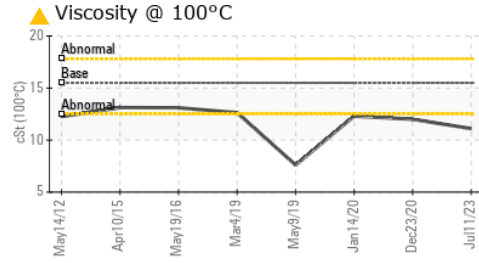
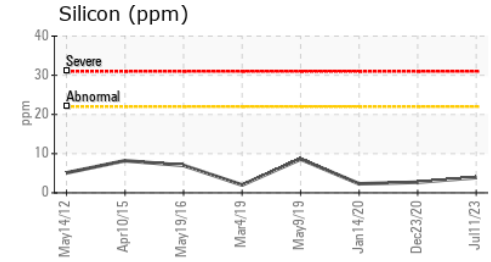
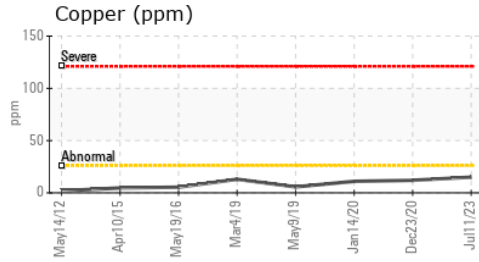
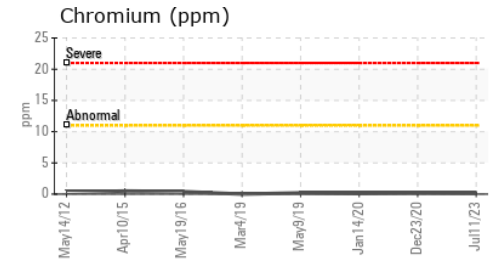
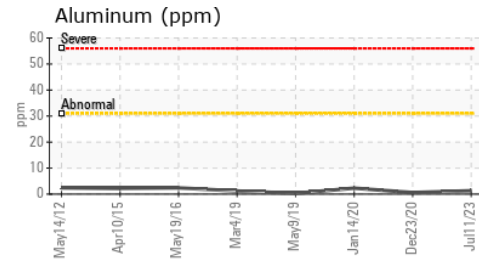
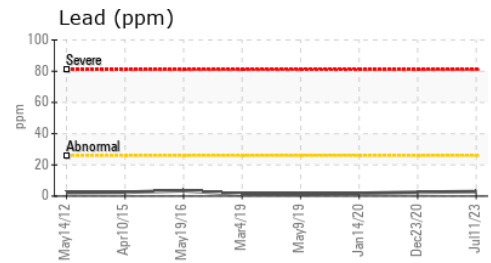
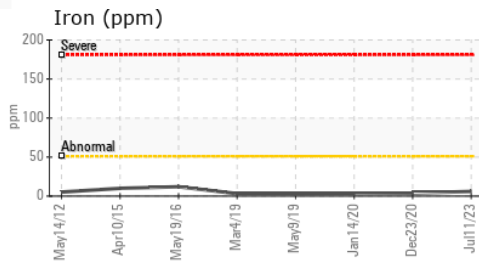
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.21	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 100°C	cSt	ASTM D445	15.5	▲ 11.1	▲ 12.0

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TR0000920 **Received** : 14 Jul 2023  
**Lab Number** : 05898777 **Diagnosed** : 17 Jul 2023  
**Unique Number** : 10560133 **Diagnostician** : Wes Davis  
**Test Package** : MOB 2 ( Additional Tests: PercentFuel )

**DIETERMAN FARM SERVICES**  
 11038 S BURKETT RD  
 MARION, MI  
 US 49665  
 Contact: DALE DIETERMAN  
 dietermanfarmservices@hotmail.com

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

\* - 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)

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