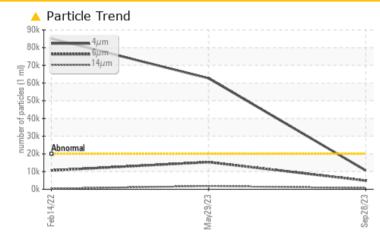


## Machine Id PELLET MILL 1

Component Gearbox Fluid USPI FG GEAR 220 (--- GAL)

#### COMPONENT CONDITION SUMMARY



#### RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST F	RESULTS			
Sample Status		ATTENTION	ABNORMAL	ABNORMAL
Particles >14µm	ASTM D7647 >64	0 🔺 666	<b>1</b> 818	362
Oil Cleanliness	ISO 4406 (c) >21	/19/16 🔺 21/19/17	🔺 23/21/18	<u> </u>

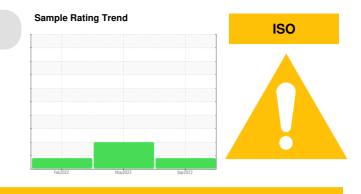
Customer Id: CARMILWI Sample No.: USPM29799 Lab Number: 05965413 Test Package: IND 2



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Doug Bogart +1 (800)237-1369 x4016 <u>dougb@wearcheckusa.com</u>

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com



#### **RECOMMENDED ACTIONS**

There are no recommended actions for this sample.

#### HISTORICAL DIAGNOSIS

#### 29 May 2023 Diag: Doug Bogart



We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



#### 14 Feb 2022 Diag: Doug Bogart

Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





# **OIL ANALYSIS REPORT**

SAMPLE INFORMATION method

#### Sample Rating Trend

limit/base



current

ISO

history2

history1

Machine Id **PELLET MILL 1** Component Gearbox Fluid

## USPI FG GEAR 220 (--- GAL)

#### DIAGNOSIS

#### A Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is a moderate amount of particulates present in the oil.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

		method	IIIIII/Dase	current	TISLOTYT	TIStory2
Sample Number		Client Info		USPM29799	USP212660	USP212661
Sample Date		Client Info		28 Sep 2023	29 May 2023	14 Feb 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ATTENTION	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	nnm	ASTM D5185m	>200	0	6	2
Chromium	ppm	ASTM D5185m		0	1	0
	ppm		>15	0	<1	
Nickel	ppm	ASTM D5185m	>15			0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m	05	0	<1	0
Aluminum	ppm	ASTM D5185m		5	2	3
Lead	ppm	ASTM D5185m	>100	0	<1	0
Copper	ppm	ASTM D5185m		0	0	<1
Tin	ppm	ASTM D5185m	>25	0	<1	<1
Antimony	ppm	ASTM D5185m	>5			0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		4	1	1
Calcium	ppm	ASTM D5185m		6	43	15
Phosphorus	ppm	ASTM D5185m		549	643	491
Zinc	ppm	ASTM D5185m		0	6	0
Sulfur	ppm	ASTM D5185m		486	464	417
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	2	4	6
Sodium	ppm	ASTM D5185m		0	<1	1
Potassium	ppm	ASTM D5185m	>20	0	2	<1
Water	%	ASTM D6304	>0.2	0.001	0.00	0.001
ppm Water	ppm	ASTM D6304	>2000	0.00	0.00	12.5
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	10641	62688	▲ 85100
Particles >6µm		ASTM D7647	>5000	4889	15330	10641
Particles >14µm		ASTM D7647	>640	<u> </u>	🔺 1818	362
Particles >21µm		ASTM D7647	>160	90	<b>A</b> 327	111
Particles >38µm		ASTM D7647	>40	6	10	6
Particles >71μm		ASTM D7647	>10	1	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<b>A</b> 21/19/17	▲ 23/21/18	▲ 24/21/16
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.48	0.67	0.35
00.10) Devid	3			0		

Report Id: CARMILWI [WUSCAR] 05965413 (Generated: 10/03/2023 12:28:13) Rev: 1

Contact/Location: Sean Bertrand - CARMILWI

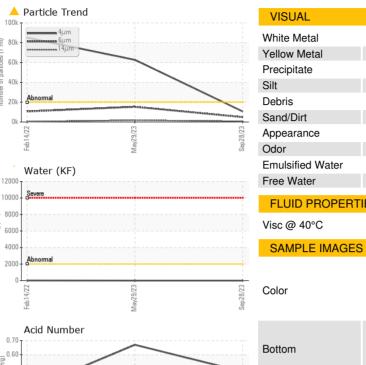


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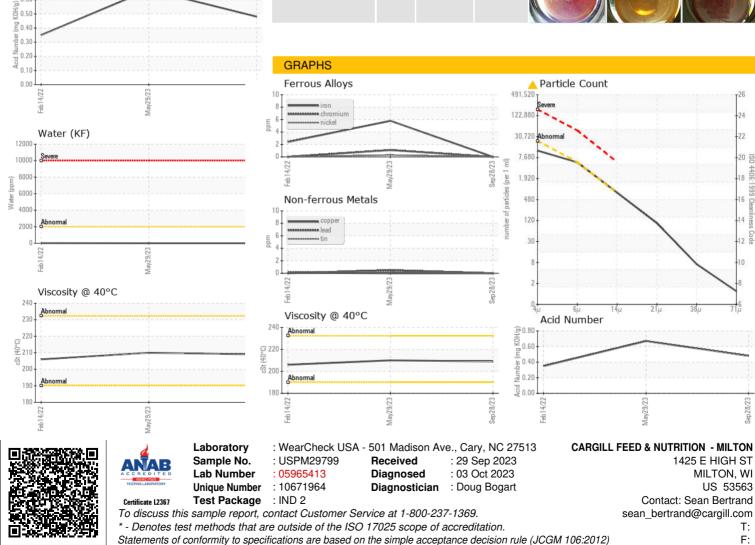
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Water

# **OIL ANALYSIS REPORT**







Contact/Location: Sean Bertrand - CARMILWI