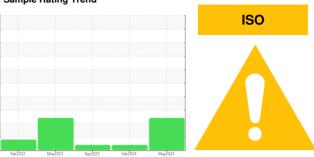


# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id **PELLET MILL 2** 

Component **Gearbox** 

USPI FG GEAR 220 (--- GAL)

# **DIAGNOSIS**

### Recommendation

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.

### Contamination

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

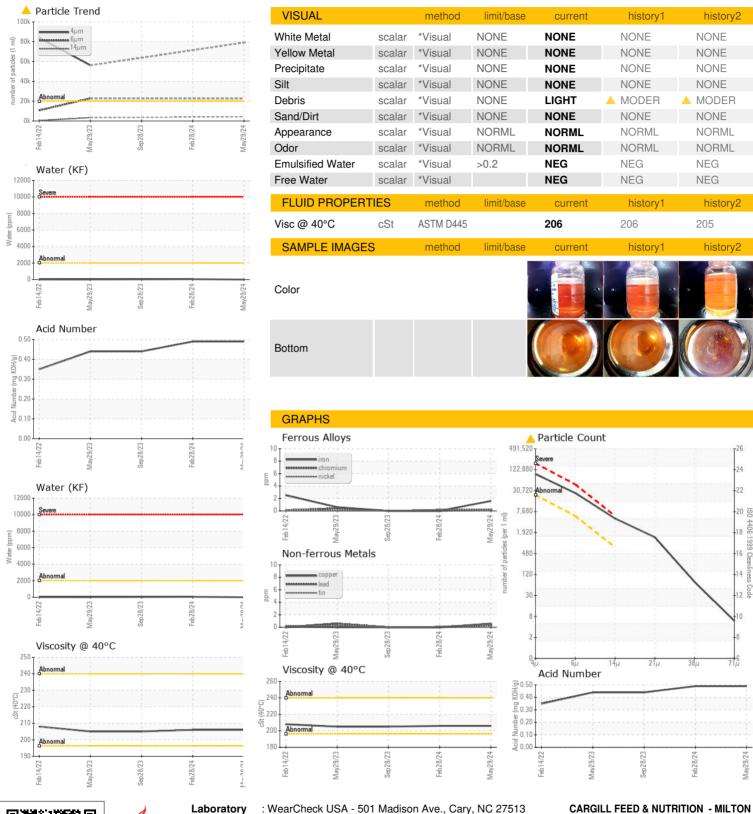
### **Fluid Condition**

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

		Feb 2022	May2023	Sep2023 Feb2024	May2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM36406	USPM30320	USPM29798
Sample Date		Client Info		29 May 2024	28 Feb 2024	28 Sep 2023
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				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	2	0	0
Chromium	ppm	ASTM D5185m	>15	<1	0	0
Nickel	ppm	ASTM D5185m	>15	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	2	7	13
Lead	ppm	ASTM D5185m	>100	<1	0	0
Copper	ppm	ASTM D5185m		<1	0	0
Tin	ppm	ASTM D5185m	>25	<1	<1	0
Vanadium	ppm	ASTM D5185m	- 20	<1	<1	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES	ррш	method	limit/base	current	history1	history2
			IIIIIIVDase			
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		1	<1	3
Calcium	ppm	ASTM D5185m		8	<1	0
Phosphorus	ppm	ASTM D5185m		522	537	531
Zinc	ppm	ASTM D5185m		3	0	0
Sulfur	ppm	ASTM D5185m		543	538	518
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	3	2	2
Sodium	ppm	ASTM D5185m		1	2	2
Potassium	ppm	ASTM D5185m	>20	2	<1	0
Water	%	ASTM D6304	>0.2	0.00	0.005	0.003
ppm Water	ppm	ASTM D6304	>2000	0	54	29.1
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<b>79089</b>		
Particles >6µm		ASTM D7647	>5000	<u>^</u> 22669		
Particles >14µm		ASTM D7647	>640	<u>4243</u>		
Particles >21µm		ASTM D7647	>160	<u> </u>		
Particles >38µm		ASTM D7647	>40	<u>^</u> 65		
Particles >71μm		ASTM D7647	>10	5		
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u>23/22/19</u>		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.49	0.49	0.44



## **OIL ANALYSIS REPORT**







Certificate 12367

Sample No. Lab Number

Laboratory : 06198208 Unique Number : 11060331

Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : USPM36406 Received : 03 Jun 2024

**Tested** : 06 Jun 2024 Diagnosed

: 06 Jun 2024 - Doug Bogart

MILTON, WI US 53563 Contact: Sean Bertrand sean\_bertrand@cargill.com

To discuss this sample report, contact Customer Service at 1-800-237-1369.  $^st$  - 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)

Contact/Location: Sean Bertrand - CARMILWI

T:

F:

1425 E HIGH ST