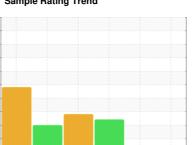


# **OIL ANALYSIS REPORT**

## Sample Rating Trend



**NORMAL** 



# PELLET MILL 1 (S/N 309281)

Component

Gearbox

USPI FG GEAR 220 (15 GAL)

### Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

### Contamination

There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable.

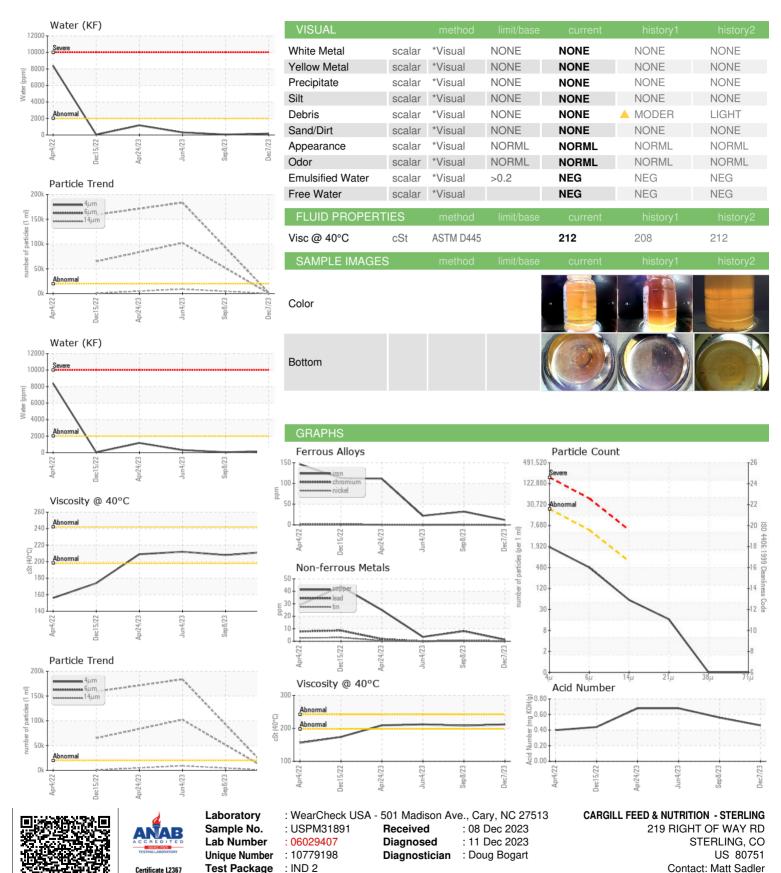
### **Fluid Condition**

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

		Apr2022	Dec2022 Apr2023	Jun2023 Sep2023	Des2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM31891	USPM29632	USP219788
Sample Date		Client Info		07 Dec 2023	08 Sep 2023	04 Jun 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				NORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	12	32	22
Chromium	ppm	ASTM D5185m	>15	<1	<1	<1
Nickel	ppm	ASTM D5185m	>15	0	0	0
Titanium	ppm	ASTM D5185m		0	<1	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	1	4
Lead	ppm	ASTM D5185m	>100	0	<1	0
Copper	ppm	ASTM D5185m	>200	1	8	4
Tin	ppm	ASTM D5185m	>25	0	<1	0
Vanadium	ppm	ASTM D5185m		0	<1	0
Cadmium	ppm	ASTM D5185m		0	<1	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	2	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	1	<1
Magnesium	ppm	ASTM D5185m		2	2	1
Calcium	ppm	ASTM D5185m		7	67	8
Phosphorus	ppm	ASTM D5185m		557	601	658
Zinc	ppm	ASTM D5185m		0	5	0
Sulfur	ppm	ASTM D5185m		605	2980	699
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	6	12	5
Sodium	ppm	ASTM D5185m		1	2	<1
Potassium	ppm	ASTM D5185m	>20	<1	4	1
Water	%	ASTM D6304	>0.2	0.016	0.005	0.031
ppm Water	ppm	ASTM D6304	>2000	169	53.5	311.7
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	1630		<u>▲</u> 183646
Particles >6µm		ASTM D7647	>5000	425		<u>▲</u> 102254
Particles >14μm		ASTM D7647	>640	50		<b>△</b> 9011
Particles >21µm		ASTM D7647	>160	14		▲ 1582
Particles >38µm		ASTM D7647	>40	0		<u>▲</u> 151
Particles >71µm		ASTM D7647	>10	0		9
Oil Cleanliness		ISO 4406 (c)	>21/19/16	18/16/13		<u>\$\text{\scale}\$ 25/24/20</u>
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.46	0.56	0.68



## **OIL ANALYSIS REPORT**



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)

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T: F: