

# **OIL ANALYSIS REPORT**

# IS REPORT

ISO



# PELLET MILL

Component

Gearbox

USPI FG GEAR 220 (--- GAL)

## DIAGNOSIS

#### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

### Contamination

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

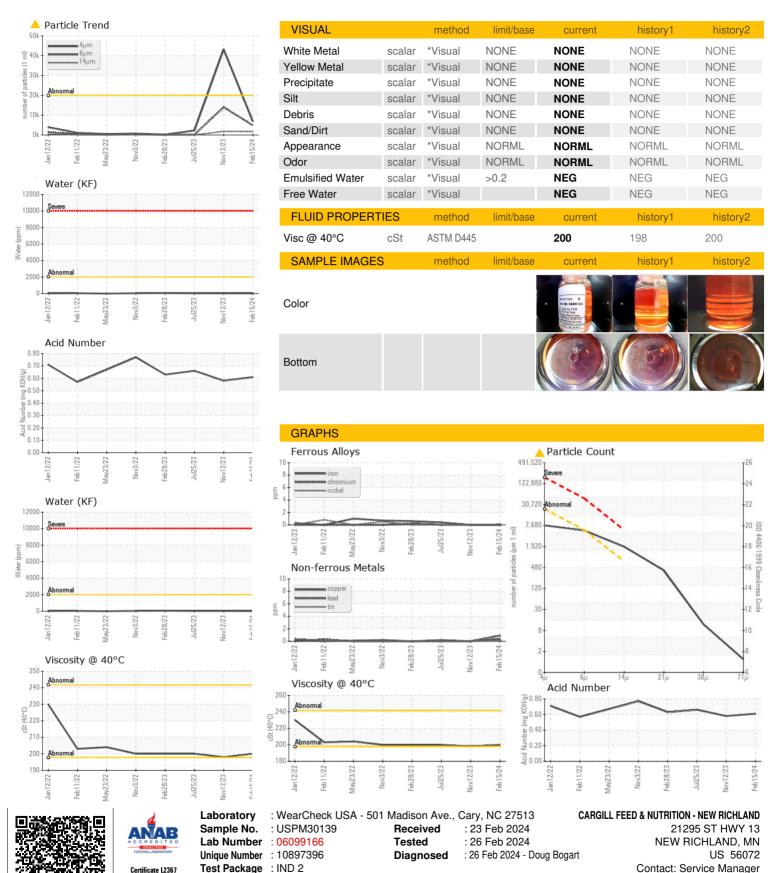
#### **Fluid Condition**

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

Jan 2022 Feb 2022 May 2022 New 2022 Feb 2023 Jul 2023 New 2024 Feb 2024						
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USPM30139	USPM27611	USPM27612
Sample Date		Client Info		15 Feb 2024	12 Nov 2023	25 Jul 2023
Machine Age	hrs	Client Info		0	3	2
Oil Age	hrs	Client Info		0	3	0
Oil Changed		Client Info		N/A	N/A	Not Changd
Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	0	0	<1
Chromium	ppm	ASTM D5185m	>15	0	0	0
Nickel	ppm	ASTM D5185m	>15	<1	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	<1
Aluminum	ppm	ASTM D5185m	>25	<1	0	<1
Lead	ppm	ASTM D5185m	>100	<1	0	0
Copper	ppm	ASTM D5185m	>200	<1	0	<1
Tin	ppm	ASTM D5185m	>25	<1	0	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	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		1	0	0
Calcium	ppm	ASTM D5185m		3	<1	0
Phosphorus	ppm	ASTM D5185m		598	563	595
Zinc	ppm	ASTM D5185m		0	0	0
Sulfur	ppm	ASTM D5185m		485	553	557
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	12	7	9
Sodium	ppm	ASTM D5185m		0	<1	0
Potassium	ppm	ASTM D5185m	>20	2	0	<1
Water	%	ASTM D6304	>0.2	0.001	0.003	0.003
ppm Water	ppm	ASTM D6304	>2000	8	25.2	31.6
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	6806	<b>43220</b>	2282
Particles >6µm		ASTM D7647	>5000	4821	<b>1</b> 3994	158
Particles >14µm		ASTM D7647	>640	<u> </u>	<b>▲</b> 1778	10
Particles >21µm		ASTM D7647	>160	<b>4</b> 349	<b>454</b>	1
Particles >38µm		ASTM D7647	>40	10	<b>4</b> 9	0
Particles >71µm		ASTM D7647	>10	1	4	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u>^</u> 20/19/18	<b>△</b> 23/21/18	18/14/10
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.61	0.58	0.66



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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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