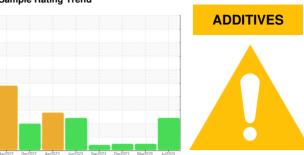


# **OIL ANALYSIS REPORT**

Sample Rating Trend



Machine Id

# **PELLET MILL 1 (S/N 309281)**

Component **Gearbox** 

USPI FG GEAR 220 (15 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.

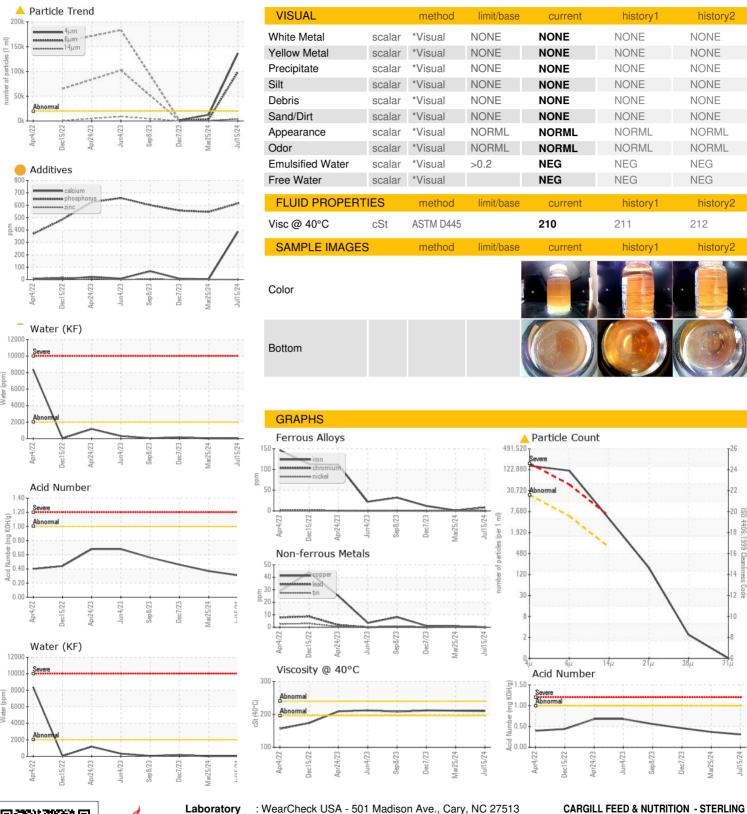
#### Fluid Condition

Additive levels indicate the addition of a different brand or type of oil. Confirmed. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

		Apr2022 D	lec2022 Apr2023 Jun20	23 Sep 2023 Dec 2023 Mar 2024	Jul2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		USP219787	USPM36908	USPM31891
Sample Date		Client Info		15 Jul 2024	25 Mar 2024	07 Dec 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	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>200	8	<1	12
Chromium	ppm	ASTM D5185m	>15	0	<1	<1
Nickel	ppm	ASTM D5185m	>15	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	1	<1
Lead	ppm	ASTM D5185m	>100	0	<1	0
Copper	ppm	ASTM D5185m	>200	<1	<1	1
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	0	0
Barium	ppm	ASTM D5185m		0	<1	0
Molybdenum	ppm	ASTM D5185m		0	<1	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		3	0	2
Calcium	ppm	ASTM D5185m		<b>387</b>	4	7
Phosphorus	ppm	ASTM D5185m		615	546	557
Zinc	ppm	ASTM D5185m		0	<1	0
Sulfur	ppm	ASTM D5185m		817	643	605
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	8	4	6
Sodium	ppm	ASTM D5185m		<1	0	1
Potassium	ppm	ASTM D5185m	>20	0	<1	<1
Water	%	ASTM D6304	>0.2	0.001	0.002	0.016
ppm Water	ppm	ASTM D6304	>2000	13	19	169
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<b>136817</b>	12566	1630
Particles >6µm		ASTM D7647	>5000	<u> </u>	3713	425
Particles >14μm		ASTM D7647	>640	<b>4158</b>	271	50
Particles >21µm		ASTM D7647	>160	<b>168</b>	49	14
Particles >38µm		ASTM D7647	>40	2	1	0
Particles >71µm		ASTM D7647	>10	0	0	0
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u>4</u> 24/24/19	21/19/15	18/16/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.31	0.37	0.46



## **OIL ANALYSIS REPORT**







Certificate 12367

Laboratory Sample No.

Lab Number : 06237808 Unique Number : 11126642

: USP219787 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 16 Jul 2024 Tested : 19 Jul 2024

Diagnosed : 19 Jul 2024 - Doug Bogart

219 RIGHT OF WAY RD STERLING, CO US 80751

Contact: Matt Sadler matthew\_sadler@cargill.com

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)

Report Id: CARSTECO [WUSCAR] 06237808 (Generated: 07/21/2024 12:25:57) Rev: 1

Contact/Location: Matt Sadler - CARSTECO

T:

F: