

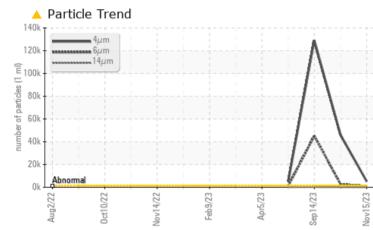
# **PROBLEM SUMMARY**

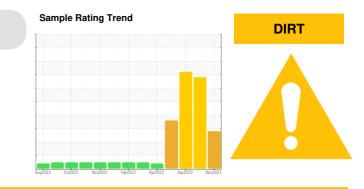
### Area **Thermoforming** Machine Id **Line 14 Extruder (S/N 18665)** Component

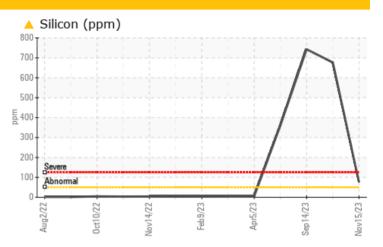
Bevel Helical Gearbox

SUMMIT SYNGEAR FG-220 (13 GAL)

## COMPONENT CONDITION SUMMARY







### RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL	SEVERE	SEVERE		
Silicon	ppm	ASTM D5185m	>50	<u> </u>	677	<b>•</b> 743		
Particles >4µm		ASTM D7647	>1300	🔺 5065	<b>4</b> 5937	🔺 129129		
Particles >6µm		ASTM D7647	>320	<u> </u>	<b>A</b> 2635	45325		
Oil Cleanliness		ISO 4406 (c)	>17/15/13	<b>A</b> 20/17/12	🔺 23/19/14	🔺 24/23/15		

Customer Id: DARDALTX Sample No.: TO50001536 Lab Number: 06013262 Test Package: IND 2



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Don Baldridge +1 <u>don.b505@comcast.net</u>

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

### **RECOMMENDED ACTIONS**

There are no recommended actions for this sample.

### HISTORICAL DIAGNOSIS

#### 18 Oct 2023 Diag: Angela Borella



16 Oct 2025 Diag. Angela Boren



We recommend you service the filters on this component if applicable. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a high amount of particulates present in the oil. Elemental level of silicon (Si) above normal. The AN level is acceptable for this fluid.



### 14 Sep 2023 Diag: Jonathan Hester



 $\bigotimes$ 

We recommend you service the filters on this component if applicable. We recommend an early resample to monitor this condition.All component wear rates are normal. There is a high amount of particulates present in the oil. Elemental level of silicon (Si) above normal. The AN level is acceptable for this fluid.



# 18 Aug 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. Elemental level of silicon (Si) above normal. The AN level is acceptable for this fluid.





# **OIL ANALYSIS REPORT**

Sample Rating Trend

#### Area **Thermoforming** Machine Id **Line 14 Extruder (S/N 18665)** Component

Bevel Helical Gearbox

SUMMIT SYNGEAR FG-220 (13 GAL)

### DIAGNOSIS

### A Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### Wear

All component wear rates are normal.

### Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material.

### Fluid Condition

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

		Aug2022	Oct2022 Nov2022	Feb2023 Apr2023 Sep202	3 Nov2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO50001536	TO50001618	TO50001708
Sample Date		Client Info		15 Nov 2023	18 Oct 2023	14 Sep 2023
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	N/A	N/A
Sample Status				ABNORMAL	SEVERE	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		7	18	18
Iron	ppm	ASTM D5185m	>150	0	18	18
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	0	<1	0
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>50	0	7	9
Tin	ppm	ASTM D5185m	>10	0	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	3	2
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		<1	2	2
Calcium	ppm	ASTM D5185m		1	2	3
Phosphorus	ppm	ASTM D5185m		717	565	571
Zinc	ppm	ASTM D5185m		0	2	<1
Sulfur	ppm	ASTM D5185m		661	1052	1177
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon		ASTM D5185m	>50		677	■ 743
Sodium	ppm		>00	▲ 76	•	. •
	ppm	ASTM D5185m	× 20	0	1	2
Potassium	ppm	ASTM D5185m ASTM D6304	>20	0	1	0
Water ppm Water	% ppm	ASTM D6304 ASTM D6304		0.002 24.6	0.004 47.7	0.064
FLUID CLEANLIN		method	limit/base	current	history1	history2
Particles >4µm	1200	ASTM D7647		▲ 5065	45937	▲ 129129
Particles >6µm		ASTM D7647 ASTM D7647		▲ 5065 ▲ 935	▲ 2635	45325
Particles >6µm Particles >14µm		ASTM D7647 ASTM D7647		<u> </u>	▲ 2635 ▲ 86	▲ 45325 ▲ 185
•				34 10	▲ 86 ▲ 29	
Particles >21µm		ASTM D7647				▲ 32
Particles >38µm		ASTM D7647		1	2	▲ 5
Particles >71µm Oil Cleanliness		ASTM D7647 ISO 4406 (c)	>3 >17/15/13	0 <u>20/17/12</u>	0	1
FLUID DEGRAD		method	limit/base	current	history1	history2
Acid Number (AN) :24:07) Rev: 1	mg KOH/g	ASTM D8045		0.62	0.73 Submitted By: Y	0.66 ON PALOMIN

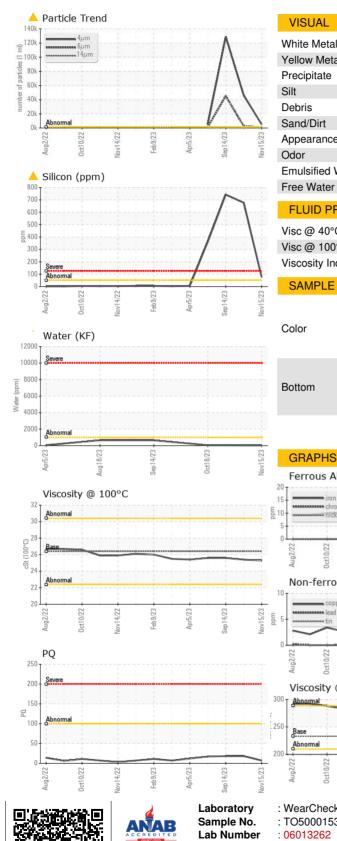
Report Id: DARDALTX [WUSCAR] 06013262 (Generated: 11/22/2023 18:24:07) Rev: 1

Submitted By: YON PALOMINO

DIRT



# **OIL ANALYSIS REPORT**



VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	0.2%
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	233	222	268	276
Visc @ 100°C	cSt	ASTM D445	26.4	25.3	25.4	25.6
Viscosity Index (VI)	Scale	ASTM D2270	146	144	121	119
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color				•		

