

# **PROBLEM SUMMARY**

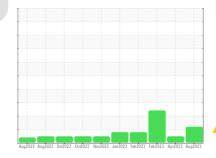
# Sample Rating Trend



# Thermoforming Line 13 Extruder (S/N E2374)

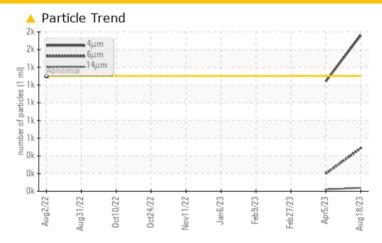
**Bevel Helical Gearbox** 

**SUMMIT UNIPAR FG-320 (13 GAL)** 





# **COMPONENT CONDITION SUMMARY**



#### RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor. ( Customer Sample Comment: Cs )

PROBLEMATIC TEST RESULTS										
Sample Status		ATTENTION	NORMAL	ABNORMAL						
Particles >4µm	ASTM D7647 >1300	<b>1762</b>	1241							
Particles >6µm	ASTM D7647 >320	<b>486</b>	199							
Oil Cleanliness	ISO 4406 (c) >17/15	/13 🔺 18/16/12	17/15/11							

**Customer Id: DARDALTX** Sample No.: TO50001786 Lab Number: 05932793 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 dougb@wearcheckusa.com

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

#### **RECOMMENDED ACTIONS**

There are no recommended actions for this sample.

#### HISTORICAL DIAGNOSIS

#### 05 Apr 2023 Diag: Doug Bogart

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



### 27 Feb 2023 Diag: Doug Bogart

DIRT



No corrective action is recommended at this time. Resample at the next service interval to monitor. Please note that this is a corrected copy for diagnostic comment updates regarding viscosity. All component wear rates are normal. Elemental level of silicon (Si) above normal. Viscosity of sample indicates oil is within ISO 320 range, advise investigate. Confirm oil type.



#### 09 Feb 2023 Diag: Doug Bogart

VISCOSITY



Resample at the next service interval to monitor. Please note that this is a corrected copy for diagnostic comment updates regarding viscosity. All component wear rates are normal. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within ISO 320 range, advise investigate. Confirm oil type.





# **OIL ANALYSIS REPORT**

Sample Rating Trend



Aroa

Thermoforming
Line 13 Extruder (S/N E2374)

Componen

**Bevel Helical Gearbox** 

**SUMMIT UNIPAR FG-320 (13 GAL)** 

# DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor. ( Customer Sample Comment: Cs )

#### Wear

All component wear rates are normal.

# Contamination

There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

#### **Fluid Condition**

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

		Aug2022 Aug2	022 Oct2022 Oct2022 Nov2	022 Jan2023 Feb2023 Feb2023 Apr2	023 Aug <sup>2</sup> 023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO50001786	TO50001548	TO50001406
Sample Date		Client Info		18 Aug 2023	05 Apr 2023	27 Feb 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				ATTENTION	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		12	10	10
Iron	ppm	ASTM D5185m	>150	1	2	1
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>25	<1	0	0
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>50	<1	<1	<1
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		<1	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	1	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		0	0	6
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m		590	570	517
Zinc	ppm	ASTM D5185m		0	2	5
Sulfur	ppm	ASTM D5185m		634	507	437
CONTAMINANTS	<b>;</b>	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	12	6	<u></u> ▲ 61
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m	>20	<1	<1	<1
Water	%	ASTM D6304	>0.1	0.00	0.005	
ppm Water	ppm	ASTM D6304	>1000	0.00	52.8	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>1300	<b>1762</b>	1241	
Particles >6µm		ASTM D7647	>320	<b>486</b>	199	
Particles >14μm		ASTM D7647	>80	38	20	
Particles >21µm		ASTM D7647	>20	10	9	
Particles >38μm		ASTM D7647	>4	1	0	
Particles >71μm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>17/15/13	<b>18/16/12</b>	17/15/11	
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2



# **OIL ANALYSIS REPORT**

