

# **PROBLEM SUMMARY**

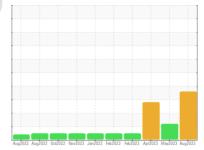
# Sample Rating Trend

# DIRT

# Thermoforming Line 12 A Extruder (S/N 328920-1-1)

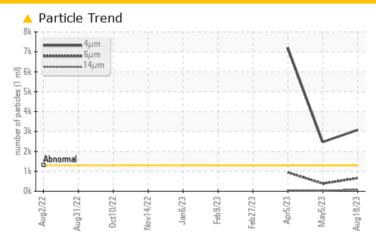
**Bevel Helical Gearbox** 

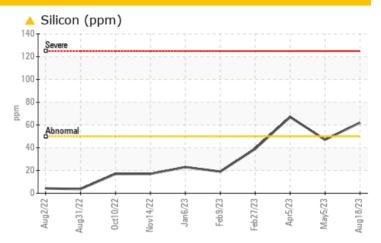
**MOBIL SHC 632 (21 GAL)** 





# **COMPONENT CONDITION SUMMARY**





### RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. ( Customer Sample Comment: Benjamin Castillo )

PROBLEMATIC TEST RESULTS								
Sample Status				ABNORMAL	ATTENTION	ABNORMAL		
Silicon	ppm	ASTM D5185m	>50	<b>△</b> 62	47	<b>△</b> 67		
Particles >4µm		ASTM D7647	>1300	<b>3078</b>	<u>2474</u>	<u>^</u> 7205		
Particles >6µm		ASTM D7647	>320	<b>△</b> 658	<b>△</b> 387	<b>△</b> 942		
Particles >14µm		ASTM D7647	>80	<u> </u>	22	39		
Particles >21µm		ASTM D7647	>20	<u>^</u> 25	7	13		
Oil Cleanliness		ISO 4406 (c)	>17/15/13	<b>19/17/14</b>	<b>1</b> 8/16/12	<u>^</u> 20/17/12		

**Customer Id: DARDALTX** Sample No.: TO50001743 Lab Number: 05933499 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 ihester@wearcheckusa.com

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

#### **RECOMMENDED ACTIONS**

Action	Status	Date	Done By	Description
Change Filter			?	We recommend you service the filters on this component.

# HISTORICAL DIAGNOSIS

# 05 May 2023 Diag: Jonathan Hester

ISO



No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



### 05 Apr 2023 Diag: Doug Bogart

DIRT



No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. 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. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



#### 27 Feb 2023 Diag: Sean Felton

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 condition of the oil is acceptable for the time in service.





# **OIL ANALYSIS REPORT**

Sample Rating Trend

# DIRT

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# Thermoforming Machine Id Line 12 A Extruder (S/N 328920-1-1)

Componen

**Bevel Helical Gearbox** 

**MOBIL SHC 632 (21 GAL)** 

# DIAGNOSIS

#### Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor. ( Customer Sample Comment: Benjamin Castillo )

#### Wear

All component wear rates are normal.

#### Contamination

There is a high amount of particulates 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 Aug2022 Oct022 Nov2022 Jan2023 Feb2023 Feb2023 Apr2023 Mov2023 Aug2023							
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		TO50001743	TO50001581	TO50001587	
Sample Date		Client Info		18 Aug 2023	05 May 2023	05 Apr 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	ATTENTION	ABNORMAL	
WEAR METALS		method	limit/base	current	history1	history2	
PQ		ASTM D8184		15	9	15	
Iron	ppm	ASTM D5185m	>150	14	13	23	
Chromium	ppm	ASTM D5185m	>10	0	<1	<1	
Nickel	ppm	ASTM D5185m	>10	0	1	<1	
Titanium	ppm	ASTM D5185m		0	0	0	
Silver	ppm	ASTM D5185m		0	0	0	
Aluminum	ppm	ASTM D5185m	>25	0	3	0	
Lead	ppm	ASTM D5185m	>100	0	<1	0	
Copper	ppm	ASTM D5185m	>50	<1	<1	<1	
Tin	ppm	ASTM D5185m	>10	0	<1	0	
Vanadium	ppm	ASTM D5185m	210	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		2	0	1	
Molybdenum	ppm	ASTM D5185m		0	<1	0	
Manganese	ppm	ASTM D5185m		0	<1	<1	
Magnesium	ppm	ASTM D5185m		0	<1	0	
Calcium	ppm	ASTM D5185m		0	0	0	
Phosphorus	ppm	ASTM D5185m		486	484	486	
Zinc	ppm	ASTM D5185m		8	0	4	
Sulfur	ppm	ASTM D5185m		0	144	208	
CONTAMINANTS		method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>50	<u>^</u> 62	47	<u>^</u> 67	
Sodium	ppm	ASTM D5185m	0.0	0	1	0	
Potassium	ppm	ASTM D5185m	>20	1	2	<1	
Water	%	ASTM D6304	>0.1	0.003	0.009	0.006	
ppm Water	ppm	ASTM D6304	>1000	27.0	90.8	67.5	
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2	
Particles >4µm		ASTM D7647	>1300	<u>▲</u> 3078	<u>2474</u>	<u>^</u> 7205	
Particles >6µm		ASTM D7647		<u>^</u> 658	▲ 387	<b>△</b> 942	
Particles >14μm		ASTM D7647	>80	<u> </u>	22	39	
Particles >21µm		ASTM D7647	>20	<u>^</u> 25	7	13	
		A OTA A D70 47	. 1	3	0	2	
Particles >38μm		ASTM D7647	>4	3	U	~	
Particles >38μm Particles >71μm		ASTM D7647 ASTM D7647		0	0	0	

0.48



# OIL ANALYSIS REPORT







Certificate L2367

**Unique Number** 

: 10618770

Diagnostician : Jonathan Hester

Test Package : IND 2 (Additional Tests: KF, KV100, PQ, PrtCount, VI)

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)

US 75236

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