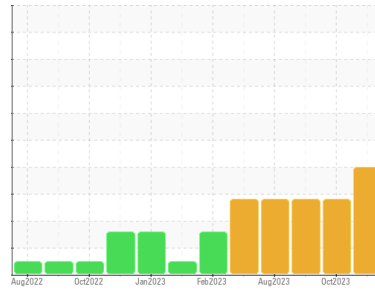
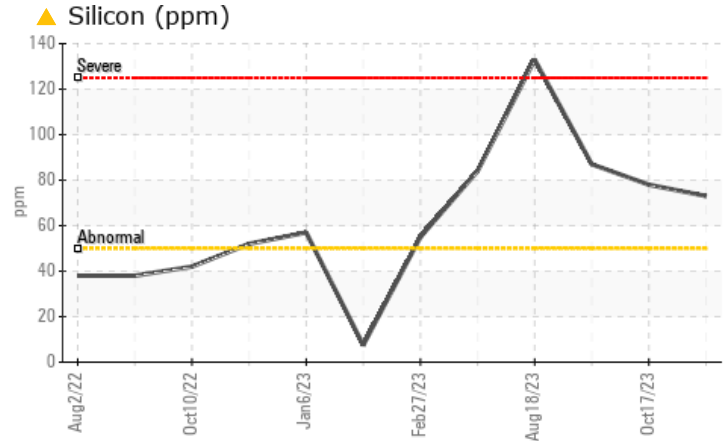
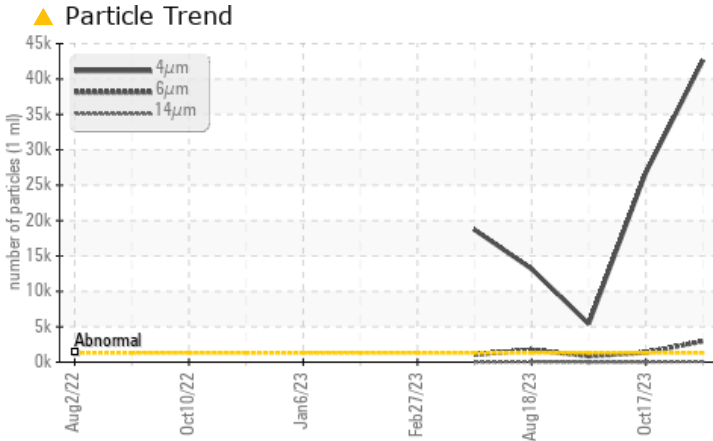


Area  
**Thermoforming**  
 Machine Id  
**Line 8 C Extruder (S/N 4276)**  
 Component  
**Bevel Helical Gearbox**  
 Fluid  
**SUMMIT UNIPAR FG-320 (60 GAL)**



## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

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

## PROBLEMATIC TEST RESULTS

Sample Status			<b>ABNORMAL</b>	ABNORMAL	ABNORMAL
Silicon	ppm	ASTM D5185m >50	<b>▲ 73</b>	▲ 78	▲ 87
Particles >4µm		ASTM D7647 >1300	<b>▲ 42664</b>	▲ 26819	▲ 5406
Particles >6µm		ASTM D7647 >320	<b>▲ 2954</b>	▲ 1341	▲ 841
Particles >14µm		ASTM D7647 >80	<b>▲ 80</b>	14	20
Particles >21µm		ASTM D7647 >20	<b>▲ 35</b>	4	6
Particles >38µm		ASTM D7647 >4	<b>▲ 6</b>	0	1
Oil Cleanliness		ISO 4406 (c) >17/15/13	<b>▲ 23/19/13</b>	▲ 22/18/11	▲ 20/17/11

Customer Id: DARDALTX  
 Sample No.: TO50001970  
 Lab Number: 06013256  
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Don Baldrige +1  
[don.b505@comcast.net](mailto:don.b505@comcast.net)

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

## RECOMMENDED ACTIONS

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

## HISTORICAL DIAGNOSIS

### 17 Oct 2023 Diag: Jonathan Hester

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.

view report



### 14 Sep 2023 Diag: Jonathan Hester

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.

view report



### 18 Aug 2023 Diag: Jonathan Hester

DIRT

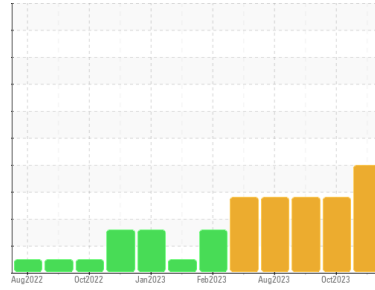


We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



Area  
**Thermoforming**  
 Machine Id  
**Line 8 C Extruder (S/N 4276)**  
 Component  
**Bevel Helical Gearbox**  
 Fluid  
**SUMMIT UNIPAR FG-320 (60 GAL)**



**DIAGNOSIS**

**Recommendation**  
 We recommend you service the filters on this component if applicable. 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. 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.

SAMPLE INFORMATION	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>TO50001970</b>	TO50001611	TO50001709
Sample Date	Client Info		<b>15 Nov 2023</b>	17 Oct 2023	14 Sep 2023
Machine Age	hrs	Client Info	<b>0</b>	0	0
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>Not Chngd</b>	N/A	N/A
Sample Status			<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

WEAR METALS	method	limit/base	current	history1	history2
PQ	ASTM D8184		<b>13</b>	12	16
Iron	ppm	ASTM D5185m >150	<b>2</b>	2	3
Chromium	ppm	ASTM D5185m >10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m >10	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >25	<b>&lt;1</b>	<1	0
Lead	ppm	ASTM D5185m >100	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >50	<b>0</b>	2	1
Tin	ppm	ASTM D5185m >10	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

ADDITIVES	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	0	0
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>&lt;1</b>	0	2
Calcium	ppm	ASTM D5185m	<b>3</b>	4	3
Phosphorus	ppm	ASTM D5185m	<b>513</b>	542	548
Zinc	ppm	ASTM D5185m	<b>0</b>	0	0
Sulfur	ppm	ASTM D5185m	<b>724</b>	803	932

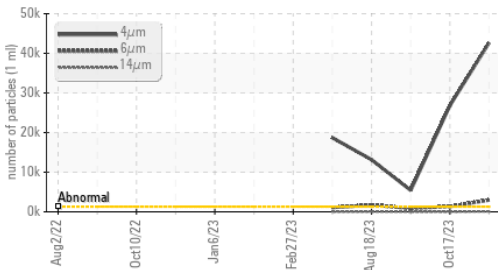
CONTAMINANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	<b>▲ 73</b>	▲ 78	▲ 87
Sodium	ppm	ASTM D5185m	<b>0</b>	2	2
Potassium	ppm	ASTM D5185m >20	<b>0</b>	0	0
Water	%	ASTM D6304 >0.1	<b>0.006</b>	0.003	0.003
ppm Water	ppm	ASTM D6304 >1000	<b>69.3</b>	34.3	34.7

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>1300	<b>▲ 42664</b>	▲ 26819	▲ 5406
Particles >6µm	ASTM D7647	>320	<b>▲ 2954</b>	▲ 1341	▲ 841
Particles >14µm	ASTM D7647	>80	<b>▲ 80</b>	14	20
Particles >21µm	ASTM D7647	>20	<b>▲ 35</b>	4	6
Particles >38µm	ASTM D7647	>4	<b>▲ 6</b>	0	1
Particles >71µm	ASTM D7647	>3	<b>2</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>17/15/13	<b>▲ 23/19/13</b>	▲ 22/18/11	▲ 20/17/11

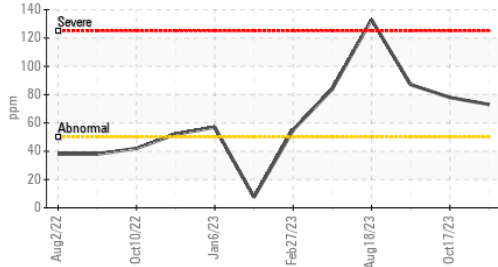
FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.68</b>	0.73	0.68

# OIL ANALYSIS REPORT

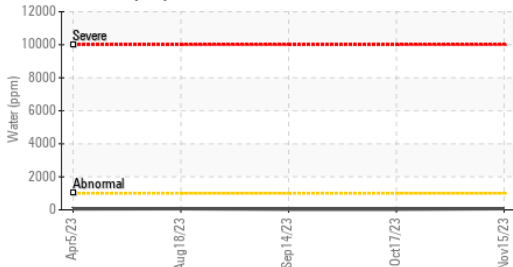
## ▲ Particle Trend



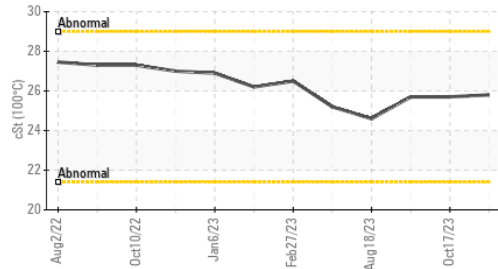
## ▲ Silicon (ppm)



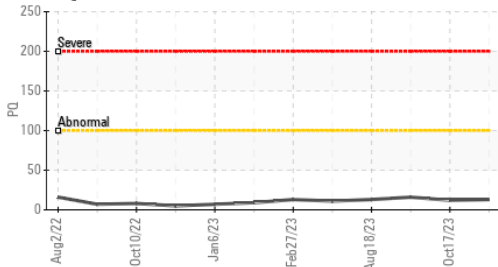
## Water (KF)



## Viscosity @ 100°C



## PQ

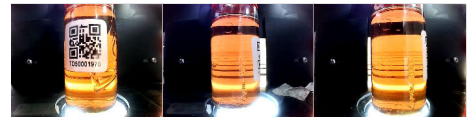


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	267	266	265
Visc @ 100°C	cSt	ASTM D445	25.8	25.7	25.7
Viscosity Index (VI)	Scale	ASTM D2270	124	124	125

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------

Color

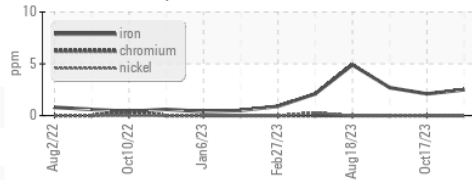


Bottom

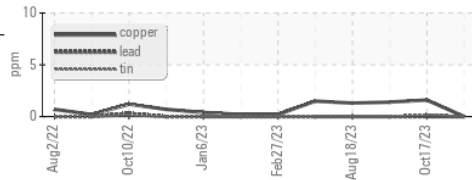


## GRAPHS

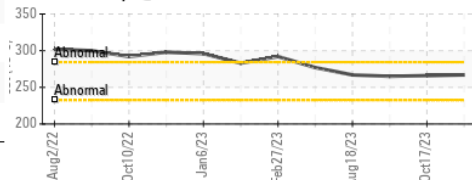
### Ferrous Alloys



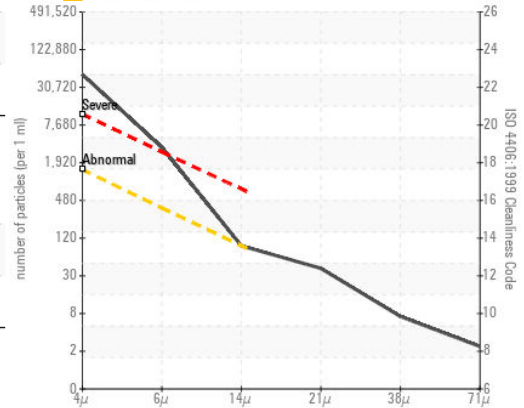
### Non-ferrous Metals



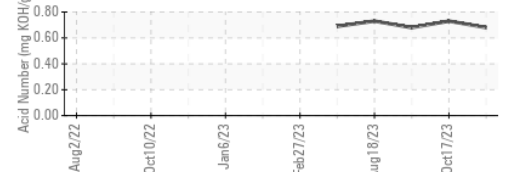
### Viscosity @ 40°C



### ▲ Particle Count



### Acid Number



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO50001970 **Received** : 20 Nov 2023  
**Lab Number** : 06013256 **Diagnosed** : 22 Nov 2023  
**Unique Number** : 10752400 **Diagnostician** : Don Baldrige

**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)

### DART CONTAINER CORPORATION

4444 W LEADBETTER DR  
DALLAS, TX  
US 75236

Contact: YON PALOMINO  
yon.palomino@dart.biz

T: (214)775-5673

F: