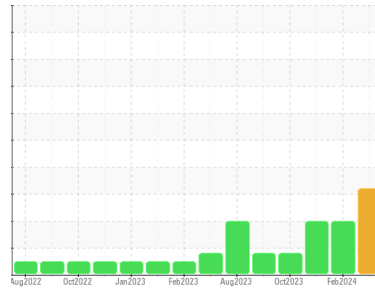


# OIL ANALYSIS REPORT

Sample Rating Trend



## VISCOSITY



Area  
**Thermoforming**  
 Machine Id  
**Line 10 A Extruder (S/N X8173)**  
 Component  
**Bevel Helical Gearbox**  
 Fluid  
**SUMMIT UNIPAR FG-150 (3 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

The oil viscosity is lower than normal. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>TO50002286</b>	TO50002197	TO50001532
Sample Date	Client Info		<b>17 Apr 2024</b>	26 Feb 2024	15 Nov 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 Changed</b>	Not Changed	Not Changed
Sample Status			<b>ABNORMAL</b>	ABNORMAL	ATTENTION

WEAR METALS	method	limit/base	current	history1	history2
PQ	ASTM D8184		<b>18</b>	11	7
Iron	ppm	ASTM D5185m >150	<b>&lt;1</b>	2	0
Chromium	ppm	ASTM D5185m >10	<b>0</b>	0	0
Nickel	ppm	ASTM D5185m >10	<b>0</b>	0	<1
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >25	<b>0</b>	0	0
Lead	ppm	ASTM D5185m >100	<b>0</b>	0	0
Copper	ppm	ASTM D5185m >50	<b>1</b>	1	<1
Tin	ppm	ASTM D5185m >10	<b>0</b>	0	<1
Vanadium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

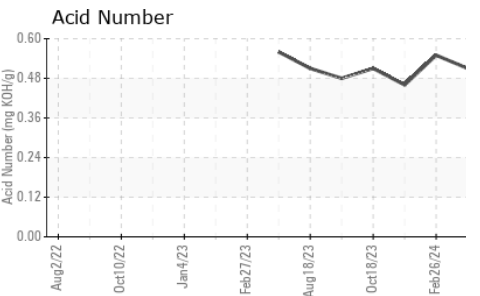
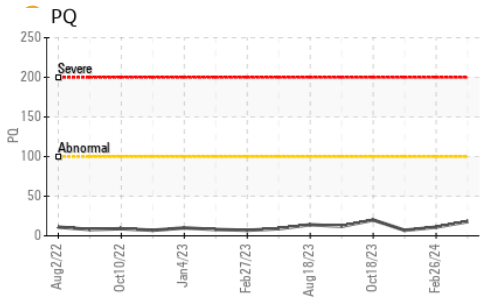
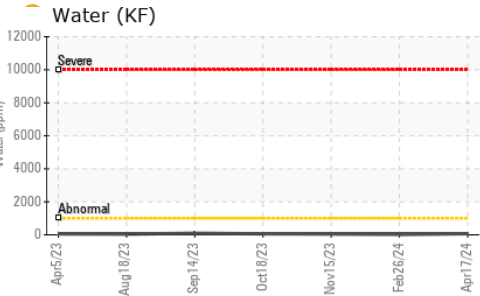
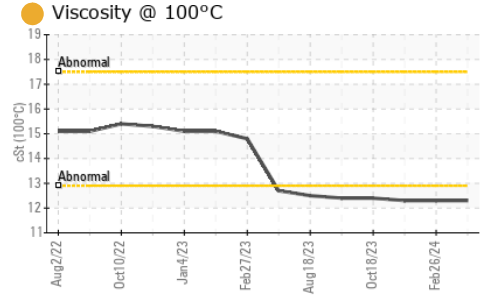
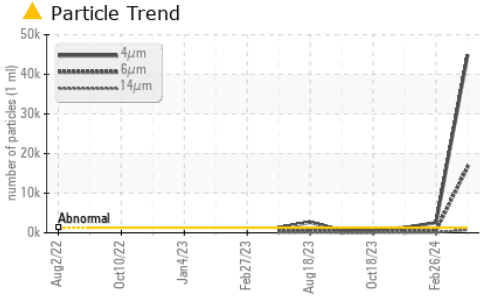
ADDITIVES	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	<1	0
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>0</b>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>0</b>	<1	0
Calcium	ppm	ASTM D5185m	<b>1</b>	38	3
Phosphorus	ppm	ASTM D5185m	<b>307</b>	316	351
Zinc	ppm	ASTM D5185m	<b>0</b>	2	0
Sulfur	ppm	ASTM D5185m	<b>402</b>	374	403

CONTAMINANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	<b>24</b>	21	19
Sodium	ppm	ASTM D5185m	<b>0</b>	<1	<1
Potassium	ppm	ASTM D5185m >20	<b>0</b>	0	0
Water	%	ASTM D6304 >0.1	<b>0.006</b>	0.002	0.004
ppm Water	ppm	ASTM D6304 >1000	<b>68</b>	19	47.8

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>1300	<b>▲ 44832</b>	▲ 2571	● 1315
Particles >6µm	ASTM D7647	>320	<b>▲ 16656</b>	▲ 660	● 462
Particles >14µm	ASTM D7647	>80	<b>▲ 720</b>	56	41
Particles >21µm	ASTM D7647	>20	<b>▲ 92</b>	21	12
Particles >38µm	ASTM D7647	>4	<b>▲ 5</b>	3	1
Particles >71µm	ASTM D7647	>3	<b>0</b>	1	0
Oil Cleanliness	ISO 4406 (c)	>17/15/13	<b>▲ 23/21/17</b>	▲ 19/17/13	● 18/16/13

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.51</b>	0.55	0.46

# OIL ANALYSIS REPORT



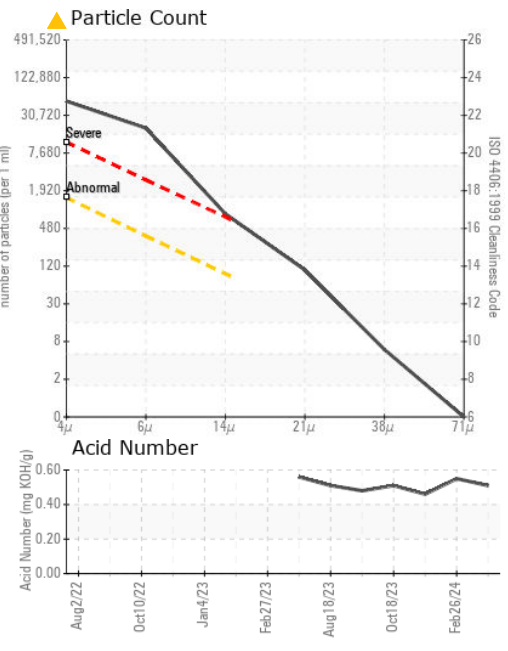
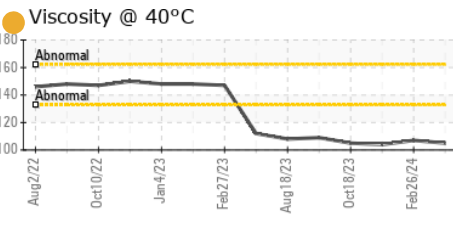
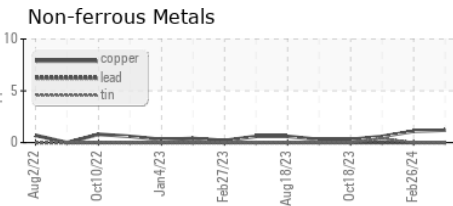
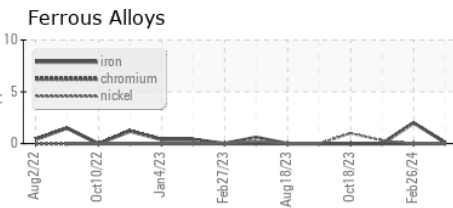
PARAMETER	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	105	107	104
Visc @ 100°C	cSt	ASTM D445	12.3	12.3	12.3
Viscosity Index (VI)	Scale	ASTM D2270	108	105	109

**SAMPLE IMAGES**

method	limit/base	current	history1	history2
Color				
Bottom				

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO50002286 **Received** : 22 Apr 2024  
**Lab Number** : 06155945 **Tested** : 23 Apr 2024  
**Unique Number** : 10991368 **Diagnosed** : 24 Apr 2024 - Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KF, KV100, PQ, PrtCount, VI )

**DART CONTAINER CORPORATION**  
 4444 W LEADBETTER DR  
 DALLAS, TX  
 US 75236  
 Contact: YON PALOMINO  
 yon.palomino@dart.biz  
 T: (214)775-5673  
 F:

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)