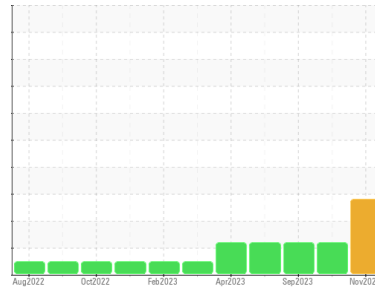
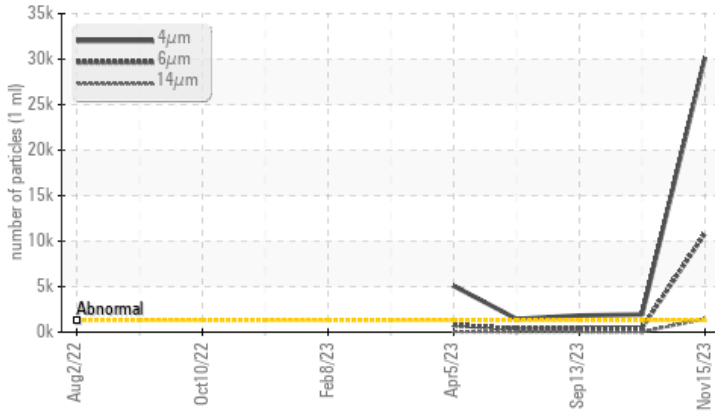


Area
Thermoforming
 Machine Id
Line 2 Extruder (S/N 266-29810-01-1)
 Component
Bevel Helical Gearbox
 Fluid
SUMMIT UNIPAR FG-320 (55 GAL)



COMPONENT CONDITION SUMMARY

▲ Particle Trend



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			ABNORMAL	ATTENTION	ATTENTION
Particles >4µm	ASTM D7647	>1300	▲ 30179	▲ 1949	▲ 1833
Particles >6µm	ASTM D7647	>320	▲ 10840	▲ 499	▲ 421
Particles >14µm	ASTM D7647	>80	▲ 1464	36	42
Particles >21µm	ASTM D7647	>20	▲ 586	12	14
Particles >38µm	ASTM D7647	>4	▲ 68	1	3
Particles >71µm	ASTM D7647	>3	▲ 8	0	1
Oil Cleanliness	ISO 4406 (c)	>17/15/13	▲ 22/21/18	▲ 18/16/12	▲ 18/16/13

Customer Id: DARDALTX
 Sample No.: TO50001968
 Lab Number: 06013261
 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

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 if applicable.

HISTORICAL DIAGNOSIS

17 Oct 2023 Diag: Don Baldrige

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.

view report



13 Sep 2023 Diag: Doug Bogart

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.

view report



18 Aug 2023 Diag: Jonathan Hester

ISO

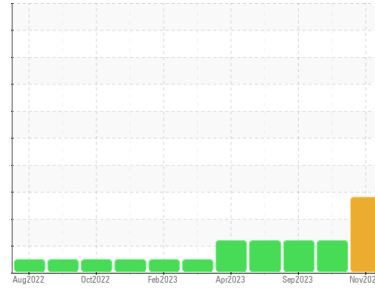


No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable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

view report



Area
Thermoforming
 Machine Id
Line 2 Extruder (S/N 266-29810-01-1)
 Component
Bevel Helical Gearbox
 Fluid
SUMMIT UNIPAR FG-320 (55 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.

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		TO50001968	TO50001609	TO50001698
Sample Date	Client Info		15 Nov 2023	17 Oct 2023	13 Sep 2023
Machine Age	hrs	Client Info	1000	1000	1000
Oil Age	hrs	Client Info	1000	1000	1000
Oil Changed	Client Info		Not Chngd	N/A	N/A
Sample Status			ABNORMAL	ATTENTION	ATTENTION

WEAR METALS	method	limit/base	current	history1	history2
PQ	ASTM D8184		9	14	12
Iron	ppm	ASTM D5185m >150	0	0	<1
Chromium	ppm	ASTM D5185m >10	0	0	0
Nickel	ppm	ASTM D5185m >10	<1	0	0
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >25	<1	<1	0
Lead	ppm	ASTM D5185m >100	0	<1	0
Copper	ppm	ASTM D5185m >50	0	1	0
Tin	ppm	ASTM D5185m >10	<1	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	0	0
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	0	0	0
Manganese	ppm	ASTM D5185m	0	<1	0
Magnesium	ppm	ASTM D5185m	<1	0	2
Calcium	ppm	ASTM D5185m	1	3	1
Phosphorus	ppm	ASTM D5185m	472	493	412
Zinc	ppm	ASTM D5185m	0	0	0
Sulfur	ppm	ASTM D5185m	71	112	141

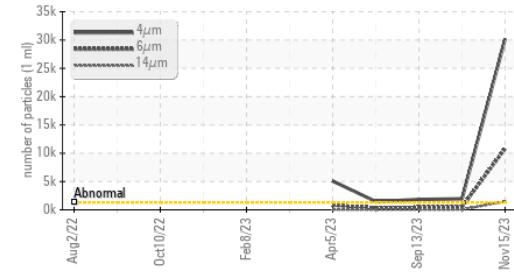
CONTAMINANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	14	16	18
Sodium	ppm	ASTM D5185m	0	1	0
Potassium	ppm	ASTM D5185m >20	0	0	0
Water	%	ASTM D6304 >0.1	0.004	0.004	0.003
ppm Water	ppm	ASTM D6304 >1000	43.7	45.4	35.2

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>1300	▲ 30179	▲ 1949	▲ 1833
Particles >6µm	ASTM D7647	>320	▲ 10840	▲ 499	▲ 421
Particles >14µm	ASTM D7647	>80	▲ 1464	36	42
Particles >21µm	ASTM D7647	>20	▲ 586	12	14
Particles >38µm	ASTM D7647	>4	▲ 68	1	3
Particles >71µm	ASTM D7647	>3	▲ 8	0	1
Oil Cleanliness	ISO 4406 (c)	>17/15/13	▲ 22/21/18	▲ 18/16/12	▲ 18/16/13

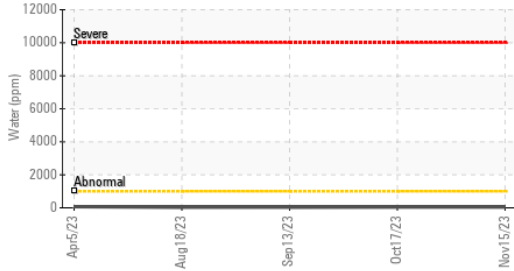
FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.55	0.63	0.58

OIL ANALYSIS REPORT

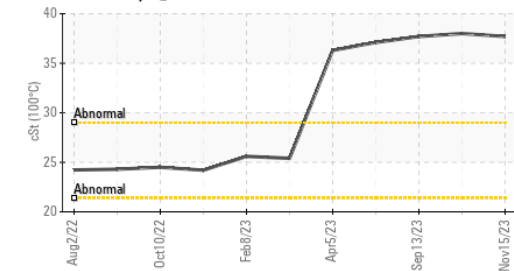
Particle Trend



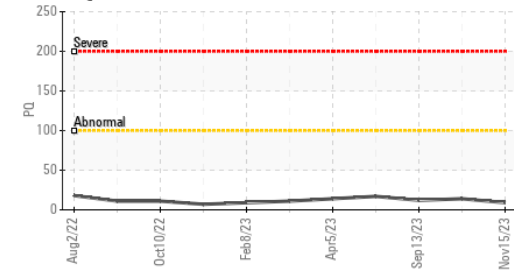
Water (KF)



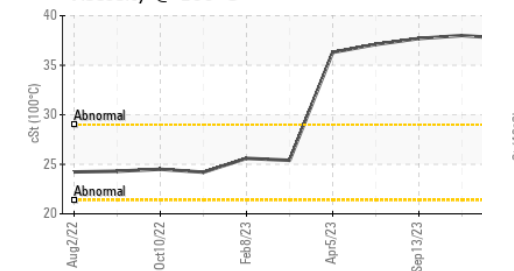
Viscosity @ 100°C



PQ



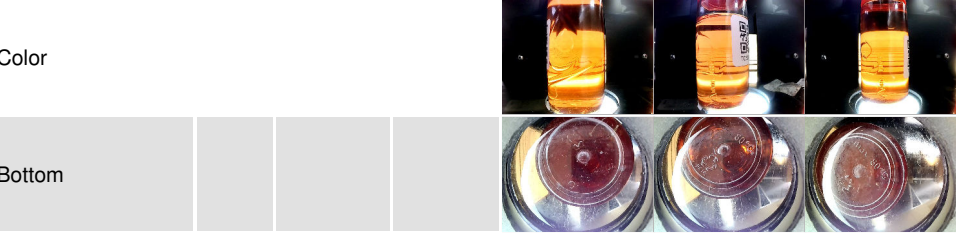
Viscosity @ 100°C



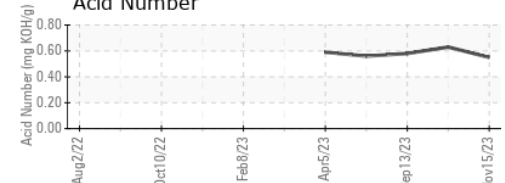
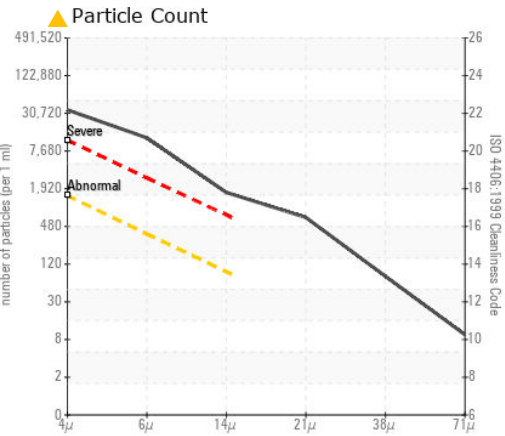
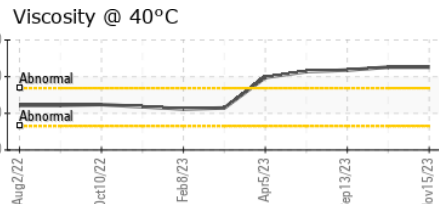
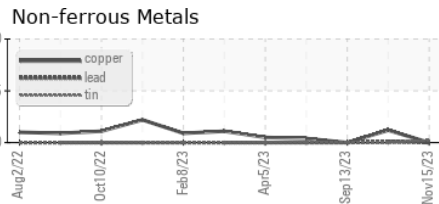
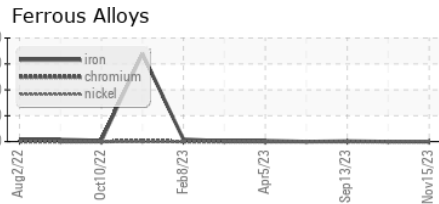
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	313	313	309
Visc @ 100°C	cSt	ASTM D445	37.7	38.0	37.7
Viscosity Index (VI)	Scale	ASTM D2270	170	171	172

SAMPLE IMAGES



GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO50001968 **Received** : 20 Nov 2023
Lab Number : 06013261 **Diagnosed** : 22 Nov 2023
Unique Number : 10752405 **Diagnostician** : Don Baldrige
Test Package : IND 2 (Additional Tests: KF, KV100, PQ, PrtCount, VI)

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 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)