

Area
Thermoforming
 Machine Id
Line 3 B Extruder (S/N X8951)
 Component
Bevel Helical Gearbox
 Fluid
SUMMIT UNIPAR FG-150 (8 GAL)

DIAGNOSIS

Recommendation
 The oil filtered at the time of sampling has been noted. No corrective action is recommended at this time. 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	TO50002232	TO50002202	TO50001975
Sample Date	Client Info	29 Mar 2024	29 Feb 2024	15 Nov 2023
Machine Age	hrs	1000	1000	1000
Oil Age	hrs	1000	1000	1000
Oil Changed	Client Info	Filtered	Not Changd	Not Changd
Sample Status		ABNORMAL	ATTENTION	ATTENTION

WEAR METALS

method	limit/base	current	history1	history2
PQ	ASTM D8184	14	13	9
Iron	ppm	4	2	4
Chromium	ppm	<1	<1	0
Nickel	ppm	0	0	<1
Titanium	ppm	0	0	0
Silver	ppm	0	0	0
Aluminum	ppm	2	2	0
Lead	ppm	0	0	0
Copper	ppm	1	2	<1
Tin	ppm	0	0	0
Vanadium	ppm	0	0	0
Cadmium	ppm	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	0	0	0
Barium	ppm	0	0	0
Molybdenum	ppm	0	0	0
Manganese	ppm	0	0	<1
Magnesium	ppm	1	<1	1
Calcium	ppm	7	0	6
Phosphorus	ppm	550	507	519
Zinc	ppm	8	3	0
Sulfur	ppm	910	630	650

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	32	12	14
Sodium	ppm	1	2	<1
Potassium	ppm	<1	<1	0
Water	%	0.003	0.001	0.005
ppm Water	ppm	30	4	54.4

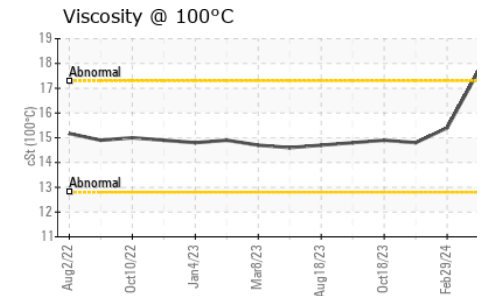
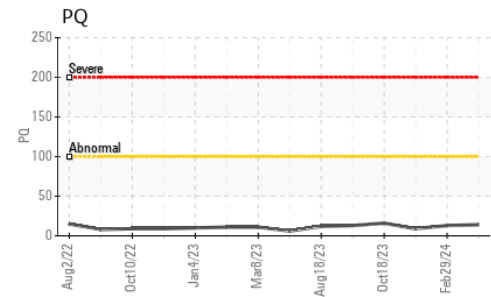
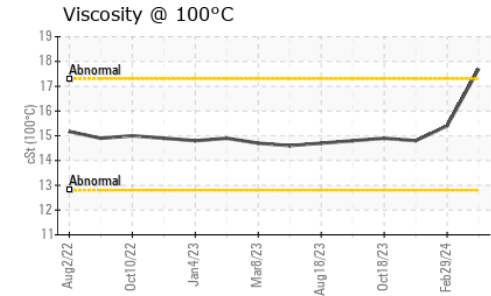
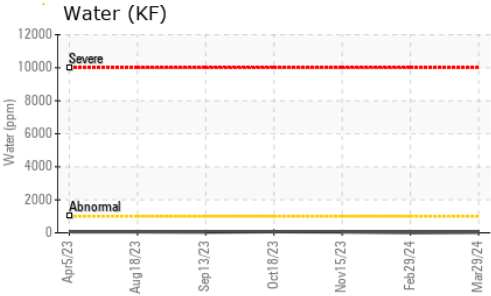
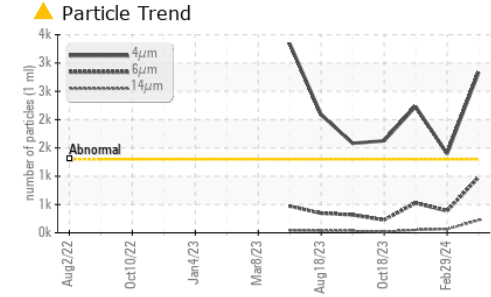
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	▲ 2834	● 1397	● 2231
Particles >6µm	ASTM D7647	▲ 980	● 389	● 527
Particles >14µm	ASTM D7647	▲ 223	66	51
Particles >21µm	ASTM D7647	▲ 118	16	14
Particles >38µm	ASTM D7647	▲ 20	3	2
Particles >71µm	ASTM D7647	▲ 3	0	0
Oil Cleanliness	ISO 4406 (c)	▲ 19/17/15	● 18/16/13	● 18/16/13

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	0.67	0.61	0.48

OIL ANALYSIS REPORT

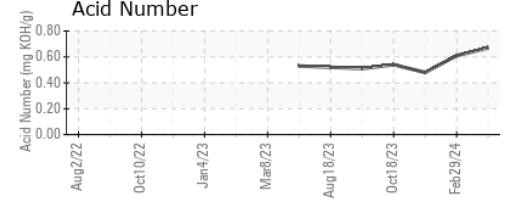
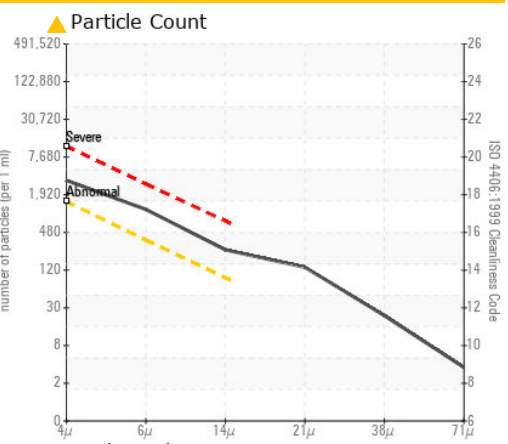
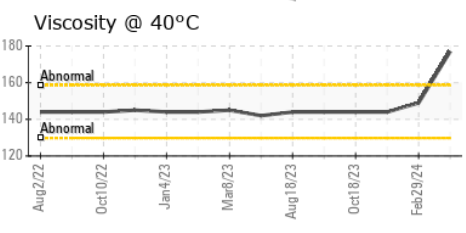
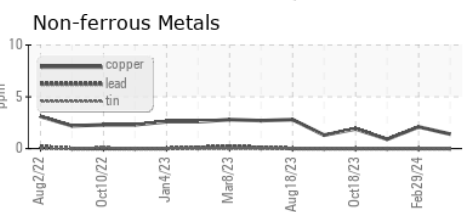
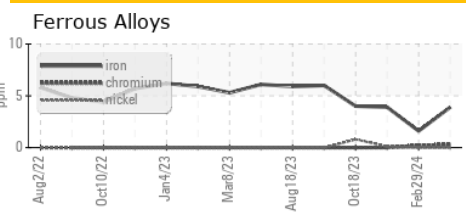


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	177	149	144
Visc @ 100°C	cSt	ASTM D445	17.7	15.4	14.8
Viscosity Index (VI)	Scale	ASTM D2270	108	105	102

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO50002232 **Received** : 03 Apr 2024
Lab Number : 06137402 **Tested** : 04 Apr 2024
Unique Number : 10956867 **Diagnosed** : 05 Apr 2024 - Don Baldrige
Test Package : IND 2 (Additional Tests: KF, KV100, PQ, PrtCount, VI)

DART CONTAINER CORPORATION
 4444 W LEADBETTER DR
 DALLAS, TX 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)