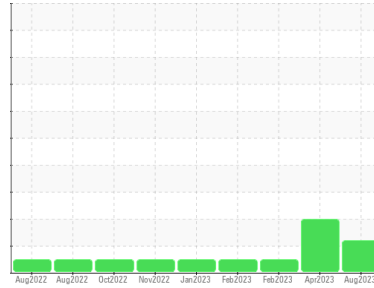


PROBLEM SUMMARY

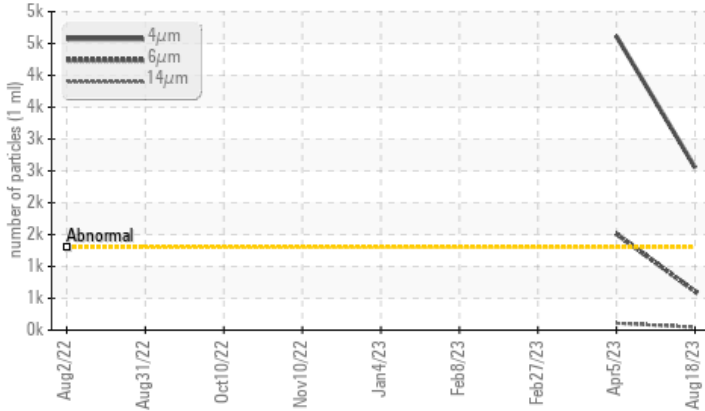
Area
Thermoforming
 Machine Id
Line 4 A Extruder (S/N X8137)
 Component
Bevel Helical Gearbox
 Fluid
NOT GIVEN (3 GAL)

Sample Rating Trend



COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

No corrective action is recommended at this time.
 Resample at the next service interval to monitor. (Customer Sample Comment: Benjamin Castillo)

PROBLEMATIC TEST RESULTS

Sample Status		ABNORMAL	ABNORMAL	NORMAL
Particles >4µm	ASTM D7647 >1300	▲ 2553	▲ 4612	---
Particles >6µm	ASTM D7647 >320	▲ 609	▲ 1510	---
Oil Cleanliness	ISO 4406 (c) >17/15/13	▲ 19/16/13	▲ 19/18/14	---

Customer Id: DARDALTX
 Sample No.: TO50001746
 Lab Number: 05933502
 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
jhester@wearcheckusa.com

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

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

05 Apr 2023 Diag: Doug Bogart

ISO



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 particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



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.

view report



08 Feb 2023 Diag: Sean Felton

NORMAL

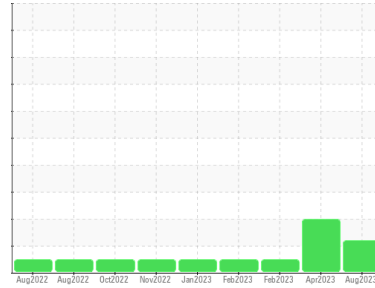


Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

view report



Area
Thermoforming
 Machine Id
Line 4 A Extruder (S/N X8137)
 Component
Bevel Helical Gearbox
 Fluid
NOT GIVEN (3 GAL)



DIAGNOSIS

Recommendation
 No corrective action is recommended at this time. 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 silt (particulates < 14 microns in size) 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	TO50001746	TO50001595	TO50001349
Sample Date	Client Info	18 Aug 2023	05 Apr 2023	27 Feb 2023
Machine Age	hrs	0	0	0
Oil Age	hrs	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		ABNORMAL	ABNORMAL	NORMAL

WEAR METALS

method	limit/base	current	history1	history2	
PQ	ASTM D8184	6	12	9	
Iron	ppm	ASTM D5185m >150	6	5	4
Chromium	ppm	ASTM D5185m >10	0	0	0
Nickel	ppm	ASTM D5185m >10	0	<1	0
Titanium	ppm	ASTM D5185m	0	0	<1
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >25	0	0	0
Lead	ppm	ASTM D5185m >100	<1	<1	0
Copper	ppm	ASTM D5185m >50	3	3	2
Tin	ppm	ASTM D5185m >10	0	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	1	<1
Barium	ppm	ASTM D5185m	2	1	0
Molybdenum	ppm	ASTM D5185m	0	0	0
Manganese	ppm	ASTM D5185m	<1	<1	1
Magnesium	ppm	ASTM D5185m	<1	0	6
Calcium	ppm	ASTM D5185m	3	1	3
Phosphorus	ppm	ASTM D5185m	687	649	592
Zinc	ppm	ASTM D5185m	14	8	12
Sulfur	ppm	ASTM D5185m	2247	2172	2270

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >50	9	8	6
Sodium	ppm	ASTM D5185m	0	0	<1
Potassium	ppm	ASTM D5185m >20	1	<1	0
Water	%	ASTM D6304 >0.1	0.004	0.004	---
ppm Water	ppm	ASTM D6304 >1000	43.6	49.4	---

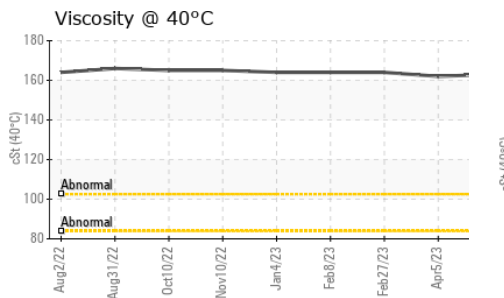
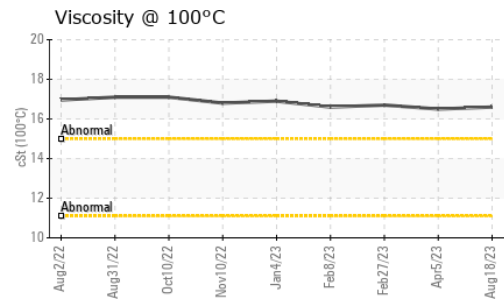
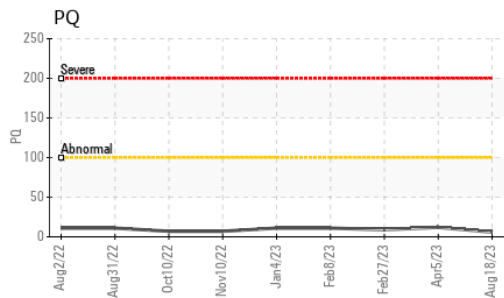
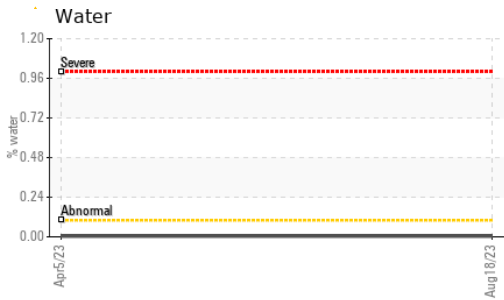
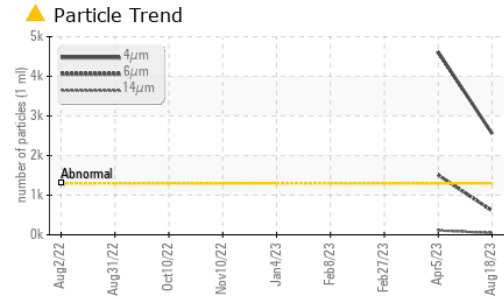
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >1300	▲ 2553	▲ 4612	---
Particles >6µm	ASTM D7647 >320	▲ 609	▲ 1510	---
Particles >14µm	ASTM D7647 >80	45	▲ 109	---
Particles >21µm	ASTM D7647 >20	14	▲ 32	---
Particles >38µm	ASTM D7647 >4	2	1	---
Particles >71µm	ASTM D7647 >3	1	0	---
Oil Cleanliness	ISO 4406 (c) >17/15/13	▲ 19/16/13	▲ 19/18/14	---

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	0.71	0.75	---

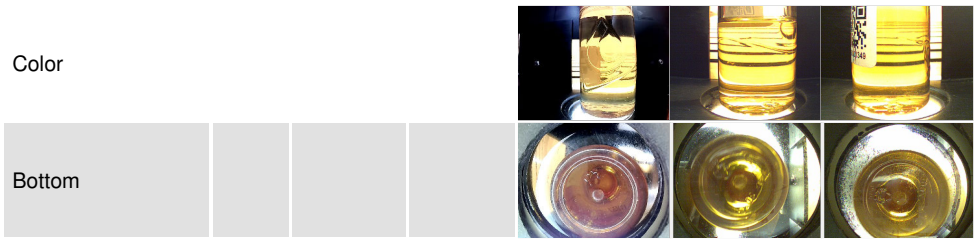
OIL ANALYSIS REPORT



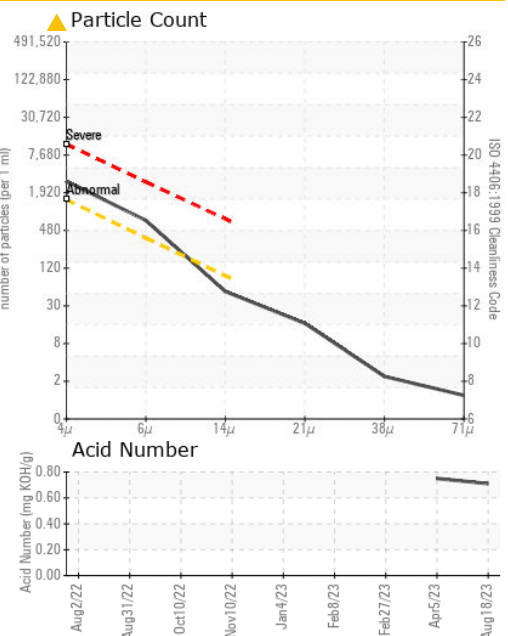
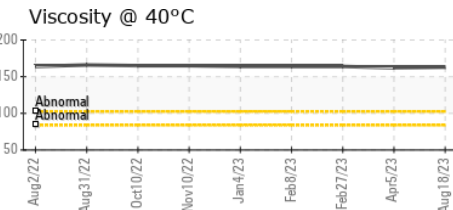
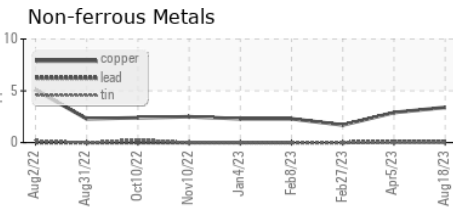
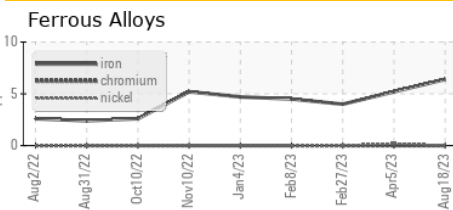
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	163	162	164
Visc @ 100°C	cSt	ASTM D445	16.6	16.5	16.7
Viscosity Index (VI)	Scale	ASTM D2270	107	107	107

SAMPLE IMAGES



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO50001746 **Received** : 24 Aug 2023
Lab Number : 05933502 **Diagnosed** : 28 Aug 2023
Unique Number : 10618773 **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)

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