

### **OIL ANALYSIS REPORT**

Sample Rating Trend

DIRT

# Thermoforming Line 7 Extruder (S/N 15547)

**Bull Gear** Fluid

{not provided} (54 GAL)

#### DIAGNOSIS

#### Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

#### Wear

Area

All component wear rates are normal.

#### Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil. Elemental level of silicon (Si) above normal.

#### Fluid Condition

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

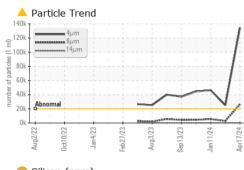
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO50002278	TO50002234	TO50001537
Sample Date		Client Info		17 Apr 2024	29 Mar 2024	11 Jan 2024
Machine Age	hrs	Client Info		0	0	24
Oil Age	hrs	Client Info		0	0	24
Oil Changed		Client Info		Not Changd	N/A	N/A
Sample Status				ABNORMAL	ATTENTION	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		34	15	14
Iron	ppm	ASTM D5185m	>150	26	3	6
Chromium	ppm	ASTM D5185m	>100	0	<1	<1
Nickel	ppm	ASTM D5185m		0	0	0
Titanium		ASTM D5185m	>10	<1	0	0
Silver	ppm	ASTM D5185m		< 1	0	0
	ppm		05	-	2	2
Aluminum	ppm	ASTM D5185m	>25	0		
Lead	ppm	ASTM D5185m	>100	0	0	0
Copper	ppm	ASTM D5185m	>50	2	<1	<1
Tin	ppm	ASTM D5185m	>10	0	0	0
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	6	16
Barium	ppm	ASTM D5185m		0	0	3
Molybdenum	ppm	ASTM D5185m		0	0	<1
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		<1	1	0
Calcium	ppm	ASTM D5185m		49	7	4
Phosphorus	ppm	ASTM D5185m		443	387	631
Zinc	ppm	ASTM D5185m		10	5	0
Sulfur	ppm	ASTM D5185m		888	1586	3301
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	<b>e</b> 82	30	19
Sodium	ppm	ASTM D5185m		0	0	0
Potassium	ppm	ASTM D5185m		0	<1	<1
Water	%	ASTM D6304	>0.1	0.002	0.003	0.006
ppm Water	ppm	ASTM D6304	>1000	19	31	68
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>20000	<b>134674</b>	25120	46257
Particles >6µm		ASTM D7647	>5000	🔺 26417	2805	5339
Particles >14µm		ASTM D7647	>640	19	80	48
Particles >21µm		ASTM D7647	>160	6	33	8
Particles >38µm		ASTM D7647	>40	1	2	1
Particles >71µm		ASTM D7647	>10	0	1	1
Oil Cleanliness		ISO 4406 (c)	>21/19/16	<u> </u>	22/19/13	▲ 23/20/13
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

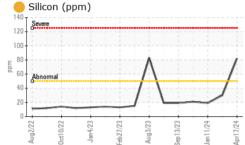
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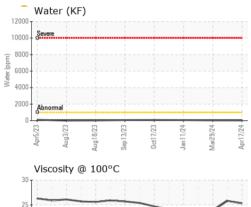
Submitted By: YON PALOMINO

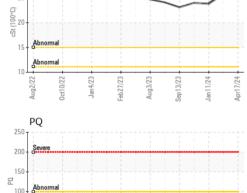


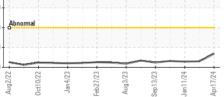
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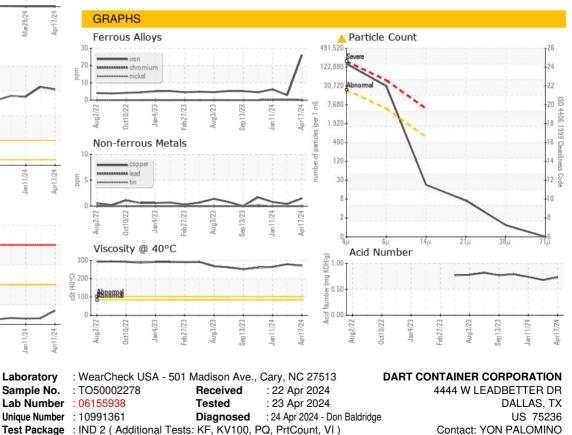


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VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		271	279	264
Visc @ 100°C	cSt	ASTM D445		25.3	25.8	23.8
Viscosity Index (VI)	Scale	ASTM D2270		119	119	112
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						a

Bottom



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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