



May 7, 2012

## ENGINEERING LABORATORY TEST REPORT

<b>Send to:</b>	Canplas Industries Ltd. 500 Veterans Drive Barrie ON L4M 4V3 Canada Attn: Tim Bach	<b>Plant:</b>	Canplas Industries Ltd. 31 Patterson Road Barrie ON L4M 4V3 Canada Attn: Mrs. Elizabeth Miller
<b>Client #:</b>	C0006197	<b>Plant #:</b>	C0006199

**NSF Job#:** J-00111495

**Description of Test Sample:** Model GT700 Grease Interceptor (35 gpm)

**Sample Received:** April 13, 2012 – Submitted in good condition by client

**Date of Test:** April 17, 2012

**Location of Test:** NSF International, Ann Arbor, MI

**Test Protocol:** PDI G101-2010 Grease Interceptors - Special testing for South Africa performed with a 1-1/2" P-trap instead of a flow control orifice.

**Results:** **COMPLETE**

**Report Authorization:**

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Manager, Engineering Laboratory

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**PDI G101 Section 5.1 Media Analysis**

**COMPLETE**

pH value	n/a
Lard specific gravity	0.874
Viscosity	6.83 cP

**PDI G101 Section 5.4 Flow Rate Verification**

**Not Applicable**

Type of Grease Interceptor	N/A	
Size of Flow Controller	None	inches
Flow Time 1 Sink 1+2	N/A	sec
Flow Time 2 Sink 1+2	N/A	sec
Flow Time 3 Sink 1+2	N/A	sec
Flow Time Average Sink 1+2	N/A	sec
Flow Rate Average Sink 1+2	N/A	gpm
Deviation from Req Average Sink 1+2	N/A	%
Flow Time 1 Sink 2+1	N/A	sec
Flow Time 2 Sink 2+ 1	N/A	sec
Flow Time 3 Sink 2+ 1	N/A	sec
Flow Time Average Sink 2+1	N/A	sec
Flow Rate Average Sink 2+1 (gpm)	N/A	gpm
Deviation from Req Average Sink 2+1	N/A	%
Max allowable deviation from average	N/A	%
Max allowable deviation between runs	N/A	%
Max deviation between runs	N/A	%
Flow rate acceptable?	N/A	

Note: Flow rates were controlled by a 1-1/2 inch P-trap and not calibrated with an external flow control orifice. Refer to Figure 1.



PDI G101 Section 7 Rating Test (Grease Retention Capacity)

PASS

Model	GT700 (35 gpm)	
Flow	23.3	GPM
Flow Restrictor ID	None	inches
Breakdown Increment Number	12	
Pounds Grease Retained at Breakdown	81.90	lbs.
Incremental Efficiency	96.7	%
Average Efficiency	98.0	%
Required Total Amount of Grease Retained	78.75	lbs.
Actual Total Amount of Grease Retained	<b>81.90</b>	<b>lbs.</b>

Note: The flow rate through the 1-1/2" P-trap was significantly lower than required by the PDI G101 test protocol.



Figure 1 - P-trap (1-1/2 inch pipe size)



**Figure 2 - GT700 Grease Interceptor**

GREASE INTERCEPTOR RATING TEST FORM															
Interceptor ID Canplas GT700 (GI 35) Grease Interceptor											Report No.: J-00111495				
Capacity No. 1		35		Test Vehicle:				***** Flow Control Data *****						Page 5 of 5	
Capacity No. 2		35		Spec. Gravity: 0.874				Observers: Jon McGaugh						Test Date: 4/17/2012	
Separate No. 1		na		Viscosity: 6.83 cP				Trey Allen						Notes: Drainage gauged on clear compartment. Tabulated "amounts retained" is a calculation of Added minus "Skimmed." Tabulated "skim amounts" includes pro-rata addition for reclaimed from skim tank after chilling. All weights taken after de-watering by Separatory funnel chilling.	
Separate No. 2		na		Test Temperature: 150-160 ° F											
Simultaneous		23.2		Water : 160				Orifice Size: 1 1/2" P-trap							
Simultaneous		23.4		Test Temperature: 150-160 ° F				Air Intake: 1" Max: Height 28.125"							
					***** INCREMENTAL *****				***** ACCUMULATED *****						
					(drop-skim)/ drop x 100 = efficiency				(drop-skim) / drop x 100 = efficiency						
No.	Test	Clear	Sec.	Rate:GPM	lb. Added	lb. Skimmed	lb. Retained	Efficiency	lb. Added	lb. Skimmed	lb. Retained	Efficiency			
1	1	2	171.28	23.3	7	0.00	7.00	100.0	7.00	0.00	7.00	100			
2	2	1	169.17	23.6	7	0.10	6.90	98.6	14.00	0.10	13.90	99			
3	1	2	170.36	23.4	7	0.14	6.86	98.0	21.00	0.24	20.76	99			
4	2	1	168.29	23.7	7	0.17	6.83	97.6	28.00	0.41	27.59	99			
5	1	2	171.46	23.3	7	0.16	6.84	97.7	35.00	0.57	34.43	98			
6	2	1	169.15	23.6	7	0.18	6.82	97.4	42.00	0.75	41.25	98			
7	1	2	170.74	23.4	7	0.26	6.74	96.3	49.00	1.01	47.99	98			
8	2	1	168.97	23.6	7	0.26	6.74	96.3	56.00	1.27	54.73	98			
9	1	2	173.68	23.0	7	0.20	6.80	97.1	63.00	1.47	61.53	98			
10	2	1	171.10	23.3	7	0.22	6.78	96.9	70.00	1.69	68.31	98			
11	1	2	173.61	23.0	7	0.17	6.83	97.6	77.00	1.86	75.14	98			
12	2	1	176.94	22.6	7	0.23	6.77	96.7	84.00	2.09	81.91	98			
13	1	2											Increment No. 12		
14	2	1											1) Total Skimmed: 2.09		
15	1	2											2) Total Retained : 81.91		
16	2	1											3) Total Added: 84.00		
17	1	2											Eff. = (line 3 - line1) / line 3		
18	2	1											Efficiency % = 97.5		
19	1	2													
20	2	1											Summary and Adjusted Results based on the totals at Break down point.		
21	1	2											Break down		
22	2	1											Increment No. 12		
23	1	2											Pounds Retained : 81.91		
24	2	1											1) Total Skimmed : 2.09		
25	1	2											2) Total Retained : 81.91		
26	2	1											3) Total Added : 84.00		
27	1	2											Eff. = (line 3 - line1) / line 3		
28	2	1											Efficiency % = 97.5		
29	1	2													
30	2	1													
31	1	2											GPM: N/A		
Average Or Total		171.23		23.3		84		2.09		81.91					