

CASK BREWING SYSTEMS INC.

O2 Test Results from Beer Packaged Using the Cask Manual Canning System

Date: April 29, 2002
Pages: 5 (incl.)

A microbrewery that packages beer using both a Cask 2 head manual can filler/seamer system and a Crown Cork and Seal bottling line was selected to do random tests on packaged air content.

Four cans and bottles of the same beer were randomly chosen and sent to Siebel Laboratories in Chicago.

Siebel test results revealed that there was no significant difference in O2 level between the bottled and canned product. Furthermore, the O2 levels were extremely low, measuring at under 0.125 PPM.

Please see the attached original lab results and comments.

If you have questions about this test please call our offices at 1-800-881-8443.

Received Fax :

APR 23 2002 9:15

Fax Station : CASK BREWING SYSTEMS

p. 3

04/23/2002 10:13

847-272-2349

NORTHBROOK LABS

PAGE 03



Northbrook Division, Corporate Office
 1815 Skokie Boulevard • Northbrook, IL 60062 • Phone 847-272-8700 • Fax 847-272-2349
 Fort Atkinson Division
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 Green Bay Division
 1044 Parkview Road • Green Bay, WI 54304-8812 • Phone 920-338-7485 • Fax 920-338-0647

April 19, 2002

To: Mr. Kersten Klaus
Cask Brewing System

From: Dennis Bryant, Ph.D.
Technical Director
Northland Laboratories

Mr. Klaus:

We recently, through the Siebel Institute Laboratory, reported a result for the level of dissolved oxygen in your product. The result reported was "less than 1.0% of saturation". We received your telephone call on Friday, during which you requested that we report the result in parts per million (ppm). The ppm level that would correspond to 1% at the temperature the product was tested is approx. 5.125. Therefore you will receive an amended report onto which this figure has been added.

We do feel that this is an extremely low level of dissolved oxygen.

I hope that this explanation is useful to you.

04/23/2002 10:13 847-272-2348

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PAGE 04




Northbrook Division, Corporate Office
1818 Skokie Blvd. Northbrook, IL 60062
(847)272-8700 Fax: (847) 272-2348

Analytical Test Report

SIEBEL INSTITUTE OF TECHNOLOGY 4000 W. PETERSON AVE CHICAGO, IL 60646 ATTN: DENISE MACZKA	ACCOUNT : 1049 COPY : 1 DATE : 04/22/2002
LAB ID# : 2002009600 SAMPLE CODE : 521502 --- Bottle LOT NUMBER : -N/A- DATE RECEIVED: 04/02/2002 P.O. NUMBER : -N/A- SUBMITTER : DENISE MACZKA REQUEST # : -N/A-	DESCRIPTION: CHILKOOT LAGER

TEST NAME/METHODOLOGY	RESULT	UNITS
DISSOLVED OXYGEN Method: EPA 380.1	<1 (≤0.125 PPM)	MG/L
TABULATED & FAXED REPORT Method:	COMPLETED 4/8/02	

Reviewed By: 

END OF REPORT

Certification Number:	USDA/FSIS - Salmonella & Listeria #D164 USDA/FSIS - Chemistry #1761
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04/23/2002 10:13 847-272-2348

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PAGE 05



Northbrook Division, Corporate Office
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(847)272-8700 Fax: (847) 272-2348

Analytical Test Report

SIEGEL INSTITUTE OF TECHNOLOGY 4055 W. PETERSON AVE CHICAGO, IL 60646 ATTN: DENISE MACZKA	ACCOUNT : 1046 COPY : 1 DATE : 04/22/2002
LAB ID# : 2002009499 SAMPLE CODE : 521501 - CPNG LOT NUMBER : -N/G- DATE RECEIVED: 04/02/2002 P.O. NUMBER : -N/G- SUBMITTER : DENISE MACZKA REQUEST # : -N/G-	DESCRIPTION: CHILKOOT LAGER

TEST NAME/METHODOLOGY	RESULT	UNITS
DISSOLVED OXYGEN Method: EPA 900.1	<1 (40.125 PPM)	MG/L
TABULATED & FAXED REPORT Method:	COMPLETED 4/8/02	

Reviewed By:

-END OF REPORT-

Certification	USDA/FSIS - Salmonella & Listeria #0164
Number:	USDA/FSIS - Chemistry #1761

04/24/2002 09:54
4/24/02

09:54

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PAGE 02/02



SIEBEL LABORATORIES

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Email: info@siebelinstitute.com

NORTHLAND, ILLINOIS 60062
FAX: 1-847-272-2384
<http://www.siebelinstitute.com>

Cask Brewing Systems

Attn : Mr. Kersten Kloss

225, 5925-12 Street S.E.

Calgary

ALberta

CAN

Chilkoot Lager (CASKB-02)

Lab no: **521501** Received on: **29-Mar-2002** Your Reference: **000949**

Comments :

0002-Dissolved Oxygen on 1 x 12 oz can
.....
Dissolved Oxygen 1.00 % *Less than*

Lab no: **521502** Received on: **29-Mar-2002** Your Reference: **000949**

Comments :

0002-Dissolved Oxygen on 1 x 12 oz bot
.....
Dissolved Oxygen 1.00 % *Less than*
