



Analytical Test Report

Certification: Pass

Retest: No

Customer: Evans Components Tool: PURGETOOL O2 Date: N/A

Location: Portland OR. Gas System: N/A H2O Date: 4/17/02

Quote: 2ORX0022 Test Gas/Source: Purified N2

System Moisture analysis was completed on the outlet of each flow meter. The moisture readings
Parameters: varied from 2.6 PPB to 6.8 PPB.

FST ID Oxygen Analyzer Model Serial Number Accuracy LastCal: CalDue:

<u>FST ID</u>	<u>Moisture Analyzer</u>	<u>Model</u>	<u>Serial Number</u>	<u>Accuracy</u>	<u>LastCal:</u>	<u>CalDue:</u>
616	Ametek	5900	590A036	4 ppb / 1%	11/7/01	11/7/02

Owner Acceptance Levels: < or = 10 ppb

Sample Location	Moisture	Mositure	Other
Flowmeters #1 & 2	2.6 ppb	6.0 ppb	N/A
Flowmeters #3 & 4	3.8 ppb	5.9 ppb	N/A
Flowmeter #5	6.8 ppb	N/A ppb	N/A


Pressure: 75 psig

System Flow Rate N/A

Set-Up Time: _____

Purge Time: 35:00 Hr:Mn

Comments: Purge time consisted of two overnight blowdowns @ 10 SCFH on each flowmeter and an initial 1 hr blowdown. Total time is 35 hrs.

Performer's Signature:  Verifier's Signature _____

Printed Name: Ingram, Grant

Printed Name: N/A



Helium Leak Test Report

Certification: Pass

Retest: No

Customer: Evans Components Tool / System: Purge Tool
 Location: Portland, OR. as System: N/A Date: 4/12/02
 Quote: 2ORX0022 Test Type: Inboard

System Parameters

He Leak tested PURGETOOL consisting of (5) flow meters with .25" VCR outlets on a common manifold, with one .5" Parker UHP valve and a .5" VCR connection at each end of the manifold.

ST ID #:	Leak Detector	Serial Number	CalStandard	Sensitivity	LastCal:	CalDue:
631	INFICON	2060007493	6.8 X 10 ⁻⁷	1 X 10 ⁻¹¹	10/16/20	10/16/20


Starting Leak Rate: 4.0 x 10⁻¹⁰ Final Leak Rate: 9.0 x 10⁻¹⁰

Specifications: Leak Rate Not To Exceed x 10⁻⁹ mbar l/sec

Welds/Fittings Checked: All

Leak Number/Location: NONE

Comments:

Performer's Signature:  Verifier's Signature: _____

Printed Name: Grant Ingram Printed Name: N/A



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 Location Portland OR. Gas System: N/A H2O Date: 4/17/02
 Quote: 2ORX0022 Test Gas/Source: Purified N2

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<u>FST ID</u>	<u>Oxygen Analyzer</u>	<u>Model</u>	<u>Serial Number</u>	<u>Accuracy</u>	<u>LastCal:</u>	<u>CalDue:</u>
<u>616</u>	<u>Ametek</u>	<u>5900</u>	<u>590A036</u>	<u>4 ppb / 1%</u>	<u>11/7/01</u>	<u>11/7/02</u>

Owner Acceptance Levels: < or = 10 ppb

<u>Sample Location</u>	<u>Oxygen</u>	<u>Mositure</u>	<u>Other</u>
<u>Flowmeter out let</u>	<u>6.8 ppb</u>	<u>N/A ppb</u>	<u>N/A</u>

Pressure: 75 psig

System Flow Rate N/A

Set-Up Time: _____

Purge Time: 35:00 Hr:Mn

Comments:

Performer's Signature Verifier's Signature _____

Printed Name: Ingram, Grant Printed Name: N/A