***Imp/Export Smoke Testing  
AUTOPIPE 11.0.0.14***

**PXF**

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| --- | --- |
| **Test Scope** | PXF Import |
| **Performed By** | Shafqat Farooq |
| **Date** | 23th Nov 2016 |
| **Machine** | WIN-64-SP1 |
| **Description** | Covers the smoke test scenarios executed on PXF Import module. |
| **Models** | QA326A, QA326B, QA326C, QA326D, QA326E, QA326F |
| **Testing Status** | Pass |
| **AutoPIPE version** | 11.0.0.14 |
| **Benchmark** | 9.6.0.19 |

**Procedure:**

* Import a PXF file in AutoPIPE latest version. An NTL file and \*.dat will also be created in the working directory.
* Analyze the model (Analyze>Analyze All)
* Generate \*.out report (Tools>Model Input Listing)
* Compare \*.rpt generated in latest build against the benchmark model \*.rpt

**Feature Tested:**

* Import a PXF file and check that the import is done without errors
* Generate input listing of the model after PXF import
* Analyze the model and check that the analysis is done without any errors
* Generate output report randomly
* Compare the input listing file
* Compare the NTL file
* Perform the following conditions while importing PXF file in AutoPIPE Latest version

**Conditions:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **PXF File** | **System Dialog** | **Import AutoPLANT dialog** | **Expected DAT File State** | **Result** |
| QA326A | piping code = B31.3  Vertical Axis = Y | Append seg name to pt = No  add anchor at free ends = No  sp. gr. Of contents = 1.23  use MAP = Yes  pipe material = n/a  P1 = 150 lb/in2  T1 = 170 °F | numeric pt names only (1, 2, 3…)  no anchors at free ends  all pipes assigned A53-A  Y is vertical axis  import added data is ok | OK |
| QA326B | piping code = B31.1  Vertical Axis = Z | Append seg name to pt = yes  add anchor at free ends = yes  sp. gr. Of contents = 0.89  use MAP = no  pipe material = HC  P1 = 150 lb/in2  T1 = 170 °F | std API pt names (A00, A01, A02…)  anchors at free ends  Z is vertical axis  import added data is ok | OK |
| QA326C | piping code = B31.3  Vertical Axis = Y | Defaults | std API pt names (A00, A01, A02…)  anchors at free ends  Y is vertical axis  import added data is ok | OK |
| QA326D | piping code = B31.3  Vertical Axis = Y | Defaults | std API pt names (A00, A01, A02…)  anchors at free ends  Y is vertical axis  import added data is ok | OK |
| QA326E | piping code = B31.3  Vertical Axis = Y  in/out units = METRIC  ambient = 15 °C | Append seg name to pt = No  add anchor at free ends = No  sp. gr. Of contents = 1.23  use MAP = Yes  pipe material = n/a  P1 = 19.33 Kg/cm2  T1 = 75°C | numeric pt names only (1, 2, 3…)  no anchors at free ends  all pipes assigned A53-A  Y is vertical axis  import added data is ok | OK |
| QA326F | piping code = B31.1  Vertical Axis = Z  in/out units = METRIC  ambient = 15 °C | Append seg name to pt = Yes  add anchor at free ends = Yes  sp. gr. Of contents = 0.89  use MAP = No  pipe material = HC  P1 = 19.33 Kg/cm2  T1 = 75°C | std API pt names (A00, A01, A02…)  anchors at free ends  Z is vertical axis  import added data is ok | OK |

**Result:** (Benchmark: 9.6.0.19)

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| --- | --- | --- | --- | --- | --- |
| **Model** | **NTL generated** | **RPT generated** | **RPT compared**  **(latest against benchmark)** | **NTL compared**  **(latest against benchmark)** | **Pass/Fail** |
| **QA326A** | OK | OK | OK | OK | PASS |
| **QA326B** | OK | OK | OK | OK | PASS |
| **QA326C** | OK | OK | OK | OK | PASS |
| **QA326D** | OK | OK | OK | OK | PASS |
| **QA326E** | OK | OK | OK | OK | PASS |
| **QA326F** | OK | OK | OK | OK | PASS |

**QA326A**

* **NTL (\*.ntl)** : [OK]
* **Model Input Listing (\*.rpt) :**  [OK]
  + Hydro Test case is not present in Latest build
  + Values of Axial Modulus and Expansion are not matching

**QA326B**

* **NTL (\*.ntl)** : [OK]
* **Model Input Listing (\*.rpt) :**  [OK]

**QA326C**

* **NTL (\*.ntl)** : [OK]
* **Model Input Listing (\*.rpt) :**  [OK]

**Component Data Listing**:

* Support data: ‘Weight’ is written as “Comp.Wt”
* Values of Expansion and Modulus are slightly different

**QA326D**

* **NTL (\*.ntl)** : [OK]
* **Model Input Listing (\*.rpt):**  [OK]
* Values of Expansion and Modulus are different
  + Values of Expansion and Modulus are slightly different

**QA326E**

* **NTL (\*.ntl)** : [OK]
* **Model Input Listing (\*.rpt):**  [OK]
  + Value of Axial, Expansion and Modulus are slightly different
  + Note of fluid density is missing
  + Hydrotest case is missing

**QA326F**

* **NTL (\*.ntl)** : [OK]
* **Model Input Listing (\*.rpt) :**  [OK]