



December 14, 2007

Subject: Dixon Bayco Alternative Fuel Compatibility

This memo explains our gasket & seal recommendations for alternative fuels with standard Dixon Bayco Bottom Loading fittings. It is our goal to provide our best technical understanding of this issue so our customer can make the best informed decisions. Dixon Bayco has completed several years of testing and engineering evaluation to ensure our products are compatible with all modern motor fuels in use today. Here are our findings;

Dixon Bayco uses a proprietary seal compound that we refer to by the trade name BAYLAST™. BAYLAST™ has been tested both in the lab and field with excellent results. BAYLAST™ was developed so we could offer a single seal material compatible with the wide range of alternative fuels used today. For the past year, Dixon Bayco models, 5204 series, VR6030SQ series, VR4100 and other products have used BAYLAST™ seals to ensure compatibility with alternate fuels including E100 Ethanol, E85 Ethanol, B2 Biodiesel, B20 Biodiesel, Ultra Low Sulfur Diesel, and standard refined gasoline and diesel products with excellent results.

There are mechanical and temperature considerations that must be understood to determine which seal material is suitable for a specific application. A good example is Teflon has a very wide chemical compatibility range but is a poor seal material for mechanical reasons. Our seal recommendations take this issue into account both Compatibility and Mechanical suitability for each application. Our test show that BAYLAST™ performs well with refined and Bio fuels typically loaded into a DOT 406 cargo tank, and is good down to -40° F.

Using Viton B, or Viton GF is one solution to ensure compatibility, but Viton has limitations regarding the mechanical suitability for seal applications with moving joints. One critical and well known limitation to Viton is cold temperature. Viton will become hard at low temperatures and seals with moving parts tend to weep liquid.

Attached is our fuel compatibility chart which outlines our recommendation for each Dixon Bayco product and type of fuel. Should you need additional technical support, or if we can help answer any of your tanker issues, please contact your Dixon Bayco sales contact or our Tech Support Hotline at 877-582-3569.

Regards,

Rich Smith
Eastern Sales Manager
800-640-1540

Dan Burke
Western Sales Manager
800-530-0233

Dixon Bayco

800 High Street
Chestertown, MD 21620
www.dixonbayco.com

ph 410-778-2000
800-355-1991
fax 410-778-4702
800-283-4966