

Fire Test Report
API Standard 6FB, Third Edition

Performed for

Teadit North America (TNA)

www.teadit.com



Teadit Style 913M-LE Spiral Wound Gasket
6 inch Class 300

Project Number: 213240
Test Date: September 17, 2013



Performed by

YARMOUTH RESEARCH AND TECHNOLOGY, LLC

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Yarmouth Research and Technology, LLC

API 6FB FIRE TEST REPORT

Customer:	Teadit North America (TNA)	Date: 9/17/2013
Project Number:	PN213240	
Product Code:	Teadit Style 913M-LE Spiral Wound Gasket 6 inch Class 300	
Specification:	API 6FB, Third Edition, Nov. 1998 Non-Bending, On-shore or Open-offshore Test	
Seal Area OD:	8.188	Seal Area ID: 7.188 inches
Mean Seal Diameter:	7.69	inches
Mean Circumference:	24.15	inches
Allowable Leakage:	24.15	ml/min
Nominal Test Pressure:	555	psig
YRT Technician:	Matthew J. Wasielewski, P.E.	
	Version of YRT's FIRE-Control 6FB Software: A	
	Equipment Confirmed to be in Calibration to NIST Standards: Yes	

Burn and Cool Down Test

Burn Start Time:	0:00:00	
Burn / Cooldown Duration:	60	minutes
Average Pressure During Burn/Cooldown:	558	psig
Leak Rate During Burn/Cool Down:	0.5	ml/min
Allowable External Leak Rate:	24.2	ml/min
Amount of Time of Avg. Cal. Block > 1200 deg.:	24.8	minutes
Were Test Conditions Within Compliance?	Yes	
Was the Leakage Below the Allowable?	Yes	

Depressurization - Repressurization Test

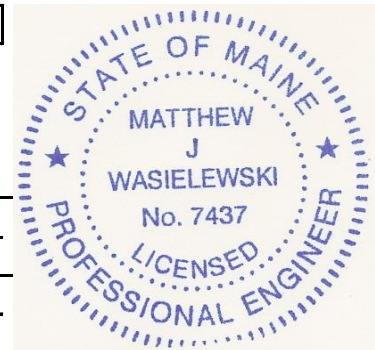
Average Pressure During Test:	546	psig
Gasket Leak Rate:	0	ml/min
Allowable External Leak Rate:	24.2	ml/min
Was the Leakage Below the Allowable?	Yes	

Does the Gasket Pass or Fail API 6FB?	PASS
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Witnesses



Note:



Temperature verses Time Chart

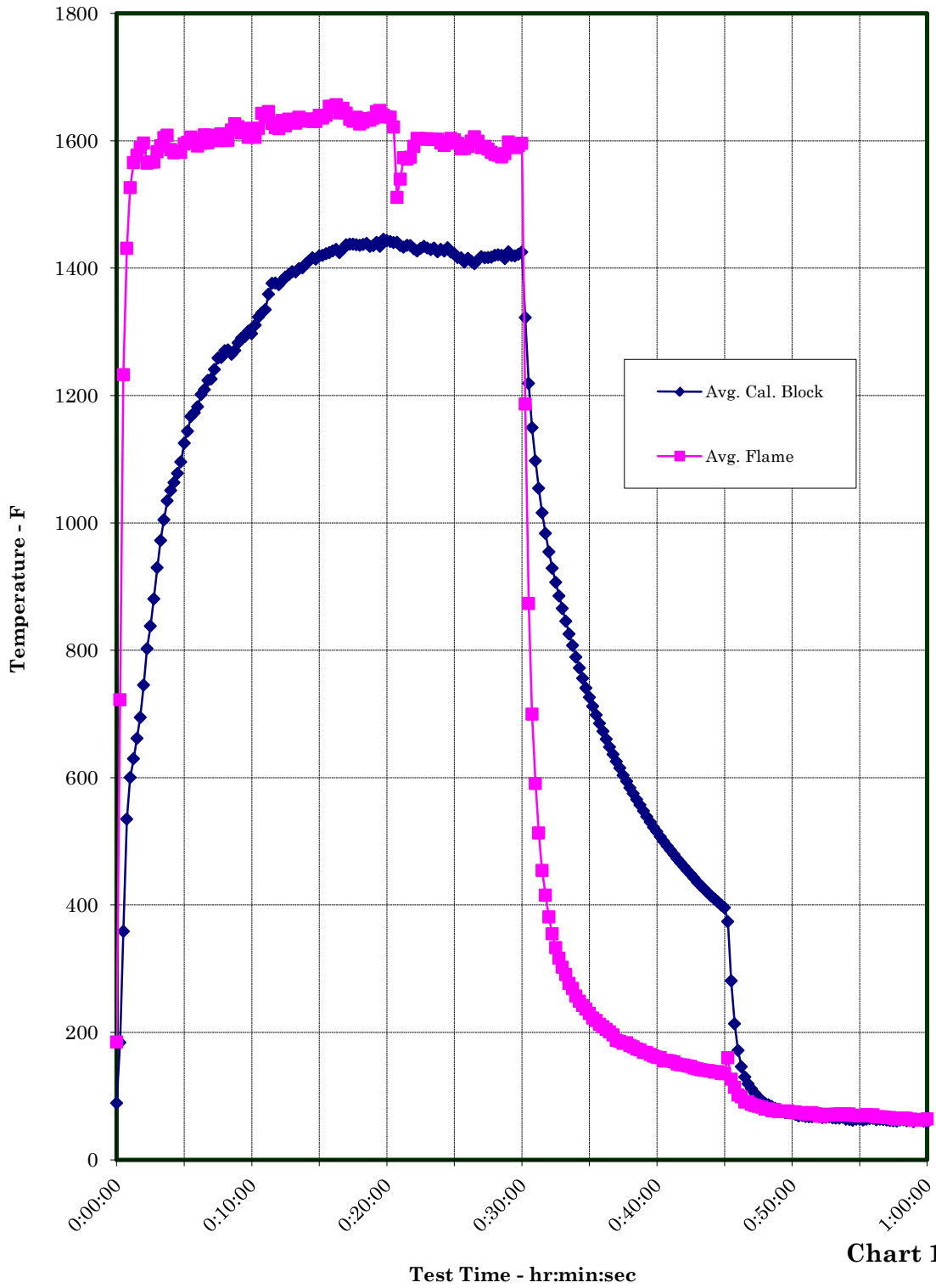


Chart 1

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Pressure verses Time Chart

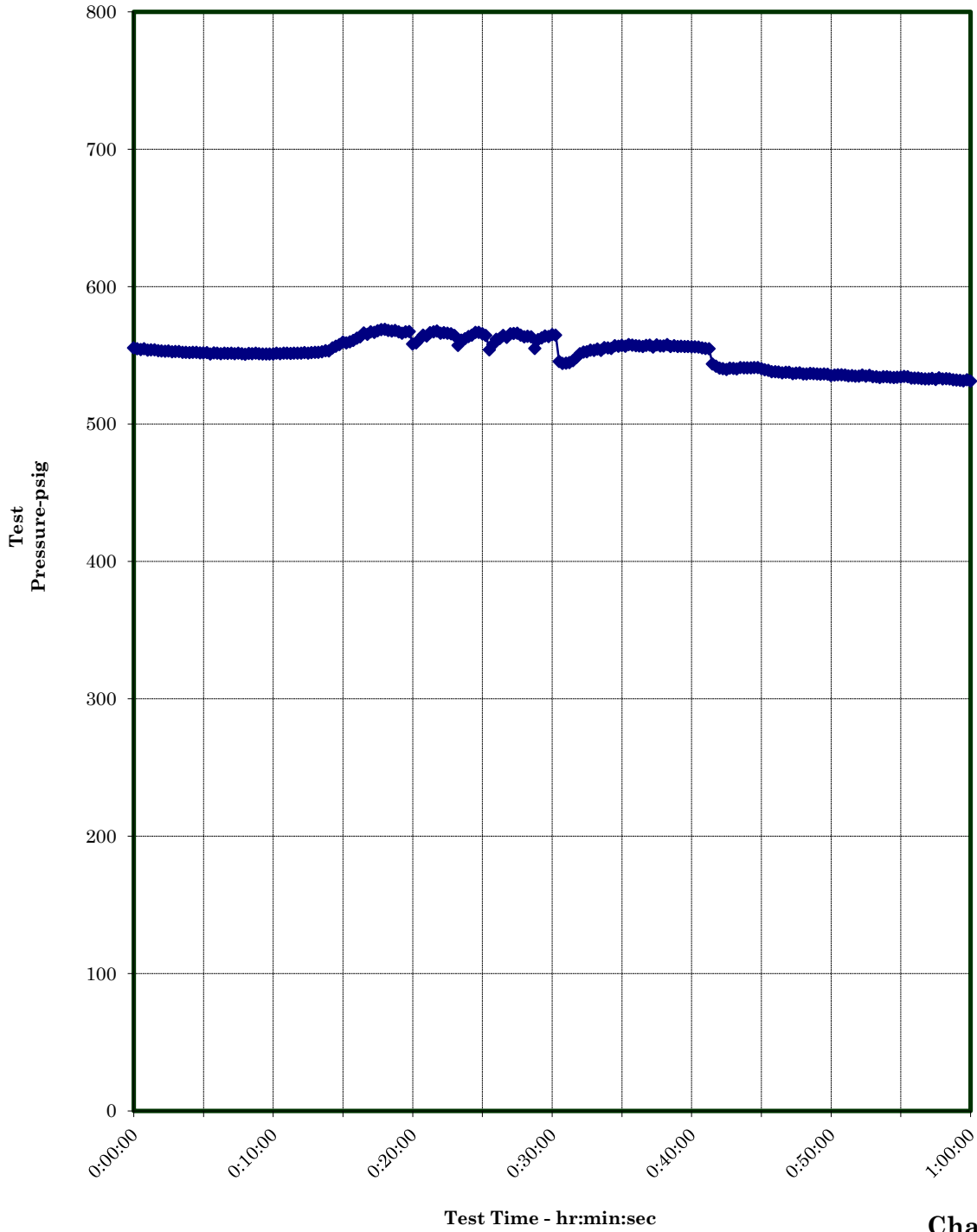


Chart 2

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Test Gasket Prior to Burn

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Test Setup Prior to Burn



Test Gasket During Burn



Test Gasket Post-Burn

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Fire Test Information

Customer: Teadit North America (TNA)

Date: 9/17/2013

Product Code: Teadit Style 913M-LE Spiral Wound Gasket

Project Number: PN213240

Fire Test Raw Data

Time	Pressure (psig)	Water Volume (mls)	Cal. 1	Cal. 2	Cal. 3	Cal. 4	Average Block Temp - F	Flame 1	Flame 2	Flame 3	Flame 4	Average Flame Temp - F
			Block Temp - F	Block Temp - F	Block Temp - F	Block Temp - F		Temp - F	Temp - F	Temp - F	Temp - F	
11:39:00	555	37102	70	74	68	143	89	182	130	232	196	185
11:39:15	555	37095	73	85	75	503	184	893	432	937	627	722
11:39:30	554	37073	98	149	109	1079	359	1417	942	1470	1101	1233
11:39:45	555	37099	157	217	180	1585	535	1612	1163	1582	1368	1431
11:40:00	554	37049	215	216	221	1748	600	1627	1240	1615	1624	1527
11:40:15	554	37054	216	260	265	1777	630	1660	1327	1606	1669	1566
11:40:30	554	37070	216	342	322	1767	662	1671	1397	1568	1673	1577
11:40:45	553	37101	236	426	379	1737	695	1663	1443	1583	1668	1589
11:41:00	553	37062	292	506	435	1748	745	1683	1472	1574	1656	1596
11:41:15	553	37076	352	580	487	1791	803	1659	1401	1526	1673	1565
11:41:30	553	37058	413	648	542	1748	838	1616	1369	1608	1672	1566
11:41:45	553	37068	468	708	589	1758	881	1604	1364	1624	1674	1567
11:42:00	553	37067	515	761	638	1804	930	1591	1418	1612	1710	1583
11:42:15	553	37082	561	808	687	1834	973	1571	1450	1606	1741	1592
11:42:30	552	37098	608	850	726	1835	1005	1591	1502	1616	1710	1605
11:42:45	552	37123	655	887	767	1829	1035	1615	1519	1585	1716	1609
11:43:00	552	37070	698	922	796	1787	1051	1595	1446	1563	1740	1586
11:43:15	552	37012	735	955	823	1740	1063	1602	1394	1572	1756	1581
11:43:30	552	37046	766	986	846	1713	1078	1607	1376	1611	1738	1583
11:43:45	552	37092	792	1014	874	1702	1096	1612	1372	1608	1736	1582
11:44:00	552	37071	815	1039	904	1743	1125	1611	1420	1612	1738	1595
11:44:15	552	37130	838	1061	920	1756	1144	1610	1434	1610	1737	1598
11:44:30	551	37071	859	1083	940	1786	1167	1611	1427	1654	1731	1606
11:44:45	552	37117	882	1101	953	1756	1173	1615	1427	1643	1725	1603
11:45:00	552	37113	903	1119	969	1738	1182	1615	1391	1629	1731	1592
11:45:15	551	37131	922	1135	986	1763	1202	1612	1382	1641	1748	1596
11:45:30	552	37113	940	1152	1005	1740	1209	1617	1408	1659	1752	1609

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11:45:45	551	37160	957	1166	1018	1754	1224	1623	1383	1616	1765	1597
11:46:00	552	37202	970	1179	1034	1721	1226	1613	1422	1647	1753	1609
11:46:15	551	37142	984	1192	1050	1737	1241	1622	1415	1649	1736	1606
11:46:30	552	37143	996	1204	1058	1777	1259	1631	1375	1644	1751	1600
11:46:45	551	37136	1010	1215	1070	1744	1260	1627	1400	1655	1762	1611
11:47:00	551	37141	1022	1226	1082	1751	1270	1608	1370	1695	1727	1600
11:47:15	551	37195	1033	1235	1092	1726	1272	1622	1373	1678	1730	1601
11:47:30	551	37137	1040	1243	1098	1677	1265	1636	1422	1673	1737	1617
11:47:45	551	37152	1045	1252	1106	1679	1271	1626	1438	1691	1752	1627
11:48:00	551	37181	1051	1260	1115	1705	1283	1622	1421	1678	1767	1622
11:48:15	551	37185	1057	1267	1123	1714	1290	1613	1396	1684	1755	1612
11:48:30	551	37210	1063	1274	1126	1707	1293	1629	1402	1688	1756	1619
11:48:45	551	37176	1069	1279	1135	1721	1301	1641	1350	1677	1753	1605
11:49:00	551	37211	1074	1284	1139	1692	1297	1645	1401	1685	1746	1619
11:49:15	552	37209	1079	1290	1144	1729	1311	1642	1373	1667	1740	1606
11:49:30	551	37195	1085	1296	1153	1759	1323	1655	1435	1644	1743	1619
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11:50:15	551	37209	1107	1308	1171	1850	1359	1647	1491	1695	1751	1646
11:50:30	552	37198	1125	1313	1181	1886	1376	1635	1430	1679	1764	1627
11:50:45	551	37237	1142	1318	1183	1863	1377	1644	1406	1674	1759	1621
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11:51:15	552	37303	1172	1325	1184	1838	1380	1635	1443	1689	1760	1632
11:51:30	552	37281	1186	1330	1192	1835	1386	1640	1435	1664	1754	1623
11:51:45	552	37297	1200	1333	1201	1825	1390	1644	1428	1698	1765	1634
11:52:00	552	37323	1209	1336	1196	1837	1395	1636	1417	1712	1750	1629
11:52:15	552	37314	1220	1340	1200	1816	1394	1637	1420	1704	1749	1628
11:52:30	553	37315	1230	1342	1203	1821	1399	1654	1419	1704	1770	1637
11:52:45	553	37418	1237	1343	1203	1818	1400	1640	1398	1704	1781	1631
11:53:00	553	37413	1245	1345	1203	1832	1406	1637	1410	1718	1764	1632
11:53:15	555	37514	1255	1348	1207	1835	1411	1646	1410	1712	1770	1635
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11:54:00	560	37678	1276	1359	1223	1819	1419	1644	1440	1713	1763	1640
11:54:15	559	37415	1279	1353	1221	1827	1420	1634	1430	1719	1759	1636
11:54:30	560	37904	1285	1354	1222	1830	1423	1646	1460	1698	1756	1640
11:54:45	561	38035	1290	1359	1227	1821	1424	1660	1501	1692	1762	1654
11:55:00	562	37985	1293	1357	1230	1827	1427	1656	1501	1708	1751	1654

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11:55:15	564	37771	1299	1364	1237	1817	1429	1645	1519	1708	1754	1657
11:55:30	566	38898	1300	1360	1236	1802	1425	1641	1467	1711	1755	1644
11:55:45	565	38001	1301	1364	1239	1816	1430	1653	1483	1707	1760	1651
11:56:00	567	39022	1302	1364	1241	1840	1437	1646	1441	1725	1761	1643
11:56:15	567	37260	1306	1367	1243	1835	1438	1638	1424	1729	1744	1634
11:56:30	568	38465	1310	1365	1247	1828	1438	1642	1408	1723	1749	1631
11:56:45	569	38737	1313	1369	1249	1816	1437	1647	1438	1720	1742	1637
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11:58:15	566	38245	1316	1376	1257	1813	1441	1651	1459	1721	1753	1646
11:58:30	567	38250	1320	1376	1258	1783	1434	1644	1452	1709	1785	1648
11:58:45	567	37931	1321	1378	1261	1821	1445	1651	1424	1705	1782	1641
11:59:00	558	37065	1322	1380	1262	1808	1443	1642	1450	1702	1756	1638
11:59:15	559	38071	1323	1381	1259	1804	1442	1646	1423	1715	1764	1637
11:59:30	562	38101	1324	1385	1263	1788	1440	1661	1382	1697	1746	1622
11:59:45	565	38418	1324	1387	1252	1799	1441	1682	964	1644	1754	1511
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12:00:30	567	38555	1324	1390	1216	1813	1436	1649	1248	1651	1736	1571
12:00:45	568	38490	1327	1390	1216	1809	1436	1660	1244	1648	1744	1574
12:01:00	566	38310	1328	1391	1214	1788	1430	1708	1249	1685	1723	1591
12:01:15	567	38282	1327	1391	1214	1776	1427	1718	1276	1700	1720	1604
12:01:30	566	38154	1323	1393	1214	1794	1431	1709	1281	1712	1710	1603
12:01:45	566	38163	1320	1394	1216	1806	1434	1705	1268	1719	1717	1602
12:02:00	565	38241	1318	1395	1217	1796	1432	1703	1274	1724	1711	1603
12:02:15	557	37910	1316	1396	1218	1786	1429	1692	1290	1708	1720	1603
12:02:30	561	37701	1315	1396	1219	1796	1432	1706	1289	1691	1722	1602
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12:03:00	564	38939	1312	1399	1223	1783	1429	1698	1262	1721	1704	1596
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12:04:30	554	38232	1294	1405	1225	1741	1416	1722	1214	1706	1708	1588

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12:04:45	558	38099	1290	1406	1225	1717	1410	1731	1221	1705	1695	1588
12:05:00	562	38683	1286	1408	1225	1742	1415	1726	1251	1674	1713	1591
12:05:15	562	39120	1282	1410	1225	1728	1411	1732	1253	1701	1711	1599
12:05:30	564	38659	1277	1411	1226	1714	1407	1716	1300	1718	1691	1606
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12:06:30	566	39319	1269	1416	1223	1759	1417	1707	1245	1703	1692	1587
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12:07:00	564	38203	1267	1417	1222	1775	1420	1697	1211	1706	1700	1579
12:07:15	564	38271	1267	1419	1222	1776	1421	1695	1221	1705	1688	1577
12:07:30	563	38359	1268	1419	1221	1772	1420	1697	1203	1719	1680	1575
12:07:45	555	38618	1266	1420	1219	1754	1415	1700	1225	1704	1689	1580
12:08:00	561	38378	1264	1421	1217	1801	1426	1705	1278	1699	1710	1598
12:08:15	563	39198	1266	1422	1218	1773	1420	1712	1258	1703	1699	1593
12:08:30	564	39229	1266	1423	1219	1769	1419	1714	1270	1673	1700	1589
12:08:45	564	37453	1267	1426	1220	1774	1422	1719	1259	1692	1699	1592
12:09:00	565	39410	1265	1427	1221	1788	1425	1719	1259	1696	1709	1596
12:09:15	565	38457	1263	1428	1220	1378	1322	1272	1002	1186	1287	1187
12:09:30	546	37440	1249	1412	1199	1016	1219	914	775	837	968	874
12:09:45	544	37431	1224	1387	1170	817	1150	721	635	655	787	700
12:10:00	544	37396	1197	1360	1140	692	1097	597	538	553	675	591
12:10:15	545	37312	1171	1334	1112	600	1054	512	467	481	592	513
12:10:30	546	37401	1144	1308	1083	529	1016	452	414	430	521	454
12:10:45	549	37684	1119	1283	1058	473	983	408	375	400	479	416
12:11:00	551	37673	1094	1259	1033	432	955	374	344	365	441	381
12:11:15	552	37726	1070	1238	1009	398	929	346	320	346	406	355
12:11:30	553	37733	1047	1221	986	372	907	326	299	328	378	333
12:11:45	554	38107	1025	1204	965	347	885	309	283	314	359	316
12:12:00	554	37374	1003	1184	945	330	866	297	269	306	337	302
12:12:15	555	37298	982	1163	925	313	846	282	256	299	325	291
12:12:30	553	38398	963	1140	905	294	826	270	245	282	309	277
12:12:45	556	38506	944	1119	887	280	808	259	235	283	299	269
12:13:00	555	37345	925	1097	869	266	789	249	225	269	285	257
12:13:15	555	38070	908	1075	852	254	772	239	217	263	276	249
12:13:30	557	37937	890	1054	835	245	756	230	211	260	267	242
12:13:45	557	38604	874	1034	819	236	741	227	203	259	257	237
12:14:00	557	38570	858	1015	804	228	726	217	197	252	253	230

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12:14:15	557	37283	842	996	789	221	712	209	192	248	241	223
12:14:30	558	38618	827	977	775	214	698	204	187	243	241	219
12:14:45	557	38601	813	959	761	208	685	198	183	237	232	213
12:15:00	557	37709	799	942	748	202	673	193	178	237	227	209
12:15:15	557	37985	785	925	735	197	661	189	173	234	221	204
12:15:30	556	37436	771	908	722	191	648	185	170	230	217	201
12:15:45	557	37932	759	891	710	186	637	181	168	223	211	196
12:16:00	557	37743	747	876	698	181	626	176	164	213	196	187
12:16:15	556	37552	735	861	687	177	615	171	161	215	195	186
12:16:30	558	38461	722	845	675	172	604	166	158	212	195	183
12:16:45	557	38315	712	831	665	168	594	164	155	216	199	184
12:17:00	557	38338	701	816	654	165	584	161	152	213	191	179
12:17:15	558	38118	690	803	644	162	575	158	149	211	191	177
12:17:30	556	38228	680	790	634	159	566	156	146	206	187	174
12:17:45	557	38214	670	778	625	155	557	153	146	207	183	172
12:18:00	556	37968	659	765	615	151	548	149	144	202	180	169
12:18:15	557	38147	650	752	606	146	539	148	141	199	184	168
12:18:30	556	38105	640	740	596	144	530	145	138	198	179	165
12:18:45	556	38089	630	729	588	141	522	143	135	195	178	163
12:19:00	556	38048	623	718	579	140	515	140	134	198	171	161
12:19:15	556	38070	614	707	571	137	507	138	132	194	176	160
12:19:30	556	38009	605	696	563	135	500	136	132	185	167	155
12:19:45	555	38055	597	686	555	133	493	135	130	191	168	156
12:20:00	555	38082	588	676	548	132	486	133	129	189	168	155
12:20:15	555	38071	582	666	540	130	480	131	128	189	166	154
12:20:30	544	37703	573	656	533	128	473	129	127	183	162	150
12:20:45	542	37464	566	647	526	127	467	127	125	181	163	149
12:21:00	541	37412	559	637	518	126	460	124	123	187	161	149
12:21:15	540	37306	553	628	511	124	454	123	124	181	161	147
12:21:30	540	37327	545	620	505	123	448	121	122	180	162	146
12:21:45	541	37291	538	611	498	121	442	119	120	182	154	144
12:22:00	541	37309	531	601	491	118	435	116	119	180	155	143
12:22:15	540	37257	525	593	486	117	430	116	118	177	155	142
12:22:30	541	37283	518	586	480	116	425	117	116	175	153	140
12:22:45	541	37289	512	578	473	116	420	116	115	176	153	140
12:23:00	541	37297	505	570	468	115	415	117	114	171	155	139
12:23:15	541	37322	501	563	461	114	410	115	112	168	155	138
12:23:30	541	37313	494	555	457	114	405	114	109	176	154	138

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12:23:45	541	37315	489	548	450	113	400	114	107	169	151	135
12:24:00	540	37327	482	541	446	113	396	113	106	173	147	135
12:24:15	540	37298	446	502	439	108	374	143	159	176	163	160
12:24:30	539	37202	295	349	397	83	281	103	135	145	122	126
12:24:45	538	37165	189	241	344	79	213	89	124	131	111	114
12:25:00	538	37174	132	178	301	75	172	81	107	118	101	102
12:25:15	538	37189	100	141	271	72	146	79	99	119	98	99
12:25:30	537	37138	89	118	244	68	130	74	92	106	90	91
12:25:45	538	37135	82	102	224	69	119	74	91	106	92	91
12:26:00	538	37141	78	93	207	67	111	73	85	103	88	87
12:26:15	537	37161	73	84	192	68	104	71	82	102	84	85
12:26:30	537	37152	67	81	177	68	98	71	81	93	89	84
12:26:45	537	37147	65	76	163	67	93	70	78	98	83	82
12:27:00	537	37150	66	74	151	65	89	68	76	94	80	80
12:27:15	537	37045	68	72	139	66	86	68	75	91	86	80
12:27:30	537	37141	68	70	131	65	84	67	72	89	80	77
12:27:45	537	37139	69	69	121	64	81	67	73	90	85	79
12:28:00	536	37124	66	70	116	64	79	65	72	82	84	76
12:28:15	536	37141	63	68	110	65	77	65	71	86	83	76
12:28:30	536	37147	63	67	103	62	74	66	70	85	81	76
12:28:45	536	37093	68	67	101	62	75	64	71	89	82	77
12:29:00	535	37080	68	66	97	63	74	65	67	85	78	74
12:29:15	536	37110	65	64	93	63	71	66	66	87	81	75
12:29:30	536	37156	59	65	89	62	69	64	67	82	81	74
12:29:45	536	37109	64	64	88	63	70	66	67	84	79	74
12:30:00	536	37126	60	63	87	62	68	65	66	78	78	72
12:30:15	535	37021	61	63	84	61	67	65	66	79	78	72
12:30:30	535	37159	60	65	83	62	68	65	65	80	85	74
12:30:45	535	37125	63	67	80	63	68	64	65	83	76	72
12:31:00	535	37090	64	65	78	64	68	65	63	72	75	69
12:31:15	536	37169	59	65	77	64	66	62	63	76	71	68
12:31:30	535	37129	65	66	74	62	67	64	65	81	76	72
12:31:45	535	37069	69	63	75	62	67	64	65	73	77	70
12:32:00	534	37155	64	64	74	61	66	64	65	75	79	71
12:32:15	534	37086	64	61	74	62	65	63	66	86	70	71
12:32:30	534	37196	64	63	73	61	65	63	65	83	78	72
12:32:45	534	37143	71	63	72	60	67	62	66	76	76	70
12:33:00	534	37118	60	64	71	60	64	64	64	80	81	72

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12:33:15	534	37120	58	64	72	59	63	65	65	79	78	72
12:33:30	534	37077	56	62	68	62	62	62	63	76	77	70
12:33:45	534	37107	62	62	69	61	64	62	63	79	75	70
12:34:00	534	37113	62	63	70	61	64	63	64	76	72	69
12:34:15	535	37165	60	61	67	61	62	62	64	76	73	69
12:34:30	534	37098	63	61	68	63	64	62	64	78	79	71
12:34:45	533	37140	63	63	68	64	65	65	63	71	78	69
12:35:00	533	37095	68	63	67	62	65	62	63	82	75	71
12:35:15	533	37080	63	61	66	61	63	60	61	71	76	67
12:35:30	533	37097	65	62	67	60	64	60	60	78	72	68
12:35:45	533	37154	65	61	67	59	63	58	60	72	78	67
12:36:00	533	37120	62	61	66	60	62	58	57	78	72	66
12:36:15	533	37107	63	60	67	56	62	57	58	75	74	66
12:36:30	532	37041	60	62	66	56	61	55	58	74	73	65
12:36:45	534	37101	58	62	66	57	61	57	57	70	70	64
12:37:00	533	37086	65	63	65	57	63	56	59	73	71	65
12:37:15	533	37060	66	61	66	58	63	54	57	75	76	66
12:37:30	533	37129	63	62	65	55	61	55	57	75	72	65
12:37:45	532	37076	70	62	63	57	63	53	56	72	74	64
12:38:00	532	37060	58	61	64	56	60	54	56	68	70	62
12:38:15	532	37018	64	64	66	55	62	54	54	70	75	63
12:38:30	531	37073	68	60	64	56	62	53	57	70	70	63
12:38:45	532	37069	62	60	65	55	61	54	57	67	71	62
12:39:00	531	37072	54	62	64	55	59	53	56	81	67	64

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Leakage Summary for Burn and Cool Down Periods

All pressure transducers and thermocouples are in calibration per YRT's QA program.

External leakage was collected electronically.

Test Duration:	60	minutes
Tank Water Loss:	30	
System Relief Water Collected:	0	mls
Calculated Water Loss:	30	
Average Leak Rate:	0.5	ml/min
Average Seal Circumference:	24.2	inches
Allowable Leak Rate:	24.2	ml/min

Was the Leakage Below the Allowable?	Yes
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Summary of Test Parameters During Burn and Cool Down Periods

Amount of Time of Average Cal. Block > 1200 deg.:	24.8	minutes
Minimum Allowable Time at Temperature:	15	minutes
Average Cal. Block Temperature During Burn:	1274	deg. F
Maximum Average Cal. Block Temperature During Burn:	1445	deg. F
Minimum Average Cal. Block Temperature During Burn:	89	deg. F
Average Flame Temperature During Burn:	1583	deg. F
Maximum Average Flame Temperature During Burn:	1657	deg. F
Minimum Average Flame Temperature During Burn:	185	deg. F

Notes

Were Test Conditions Within Compliance?	Yes
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Yarmouth Research and Technology, LLC

Depressurization - Repressurization Test Information

Customer: Teadit North America (TNA)

Date: 9/17/2013

Product Code: Teadit Style 913M-LE Spiral Wound Gasket

Project Number: PN213240

System pressure was lowered to 0 and then repressurized.

Operational Test Raw Data

Time	Pressure (psig)	Average Block Temp-F
12:45:51	548	62
12:46:06	547	62
12:46:21	547	62
12:46:36	547	62
12:46:51	547	61
12:47:06	547	62
12:47:21	546	62
12:47:36	547	62
12:47:51	547	62
12:48:06	546	62
12:48:21	546	61
12:48:36	546	61
12:48:51	546	61
12:49:06	545	62
12:49:21	546	62
12:49:36	546	61
12:49:51	545	61
12:50:06	545	61
12:50:21	545	61
12:50:36	545	61
12:50:51	545	60

Leakage was collected manually.

Total External Leakage Collected Over 5 Minute Duration:	0.0	mls
Average Leak Rate Over 5 Minute Duration:	0.0	ml/min
Allowable Leak Rate:	24.2	ml/min

Was the Leakage Below the Allowable?	Yes
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