

Fire Test Report
API Standard 6FB, Third Edition

Performed for

Teadit N.A. Inc.

www.teadit-na.com



6 inch Class 300
Teadit Style 913M Gasket

Project Number: 215046
Test Date: February 9, 2015



Performed by

YARMOUTH RESEARCH AND TECHNOLOGY, LLC

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Yarmouth Research and Technology, LLC

API 6FB FIRE TEST REPORT

Customer:	Teadit N.A. Inc.	Date:	2/9/2015
Project Number:	215046		
Product Code:	Teadit Style 913M, 6 Inch Class 300		
Specification:	API 6FB, Third Edition, Nov. 1998 Non-Bending, On-shore Test		
Gasket Thickness:	0.193	inches	
Seal Area OD:	8.25	Seal Area ID:	7.25 inches
Mean Seal Diameter:	7.75	inches	
Mean Circumference:	24.3	inches	
Allowable Leakage:	24.3	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:	13:39:00	
Burn / Cooldown Duration:	60	minutes
Average Pressure During Burn/Cooldown:	553	psig
Leak Rate During Burn/Cool Down:	0	ml/min
Allowable External Leak Rate:	24.3	ml/min
Amount of Time of Avg. Cal. Block > 1200 deg.:	15.5	minutes
Were Test Conditions Within Compliance?	Yes	
Was the Leakage Below the Allowable?	Yes	

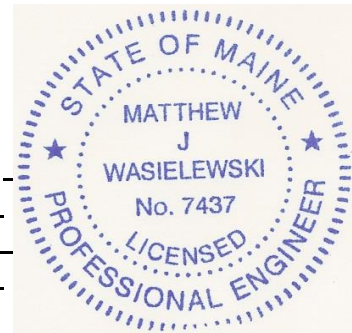
Depressurization - Re-pressurization Test

Average Pressure During Test:	549	psig
Gasket Leak Rate:	0	ml/min
Allowable External Leak Rate:	24.3	ml/min
Was the Leakage Below the Allowable?	Yes	
Does the Gasket Pass or Fail API 6FB?	PASS	

Certified By:



Matthew J. Wasielewski, PE
President and Manager
Yarmouth Research and Technology, LLC



Temperature verses Time Chart

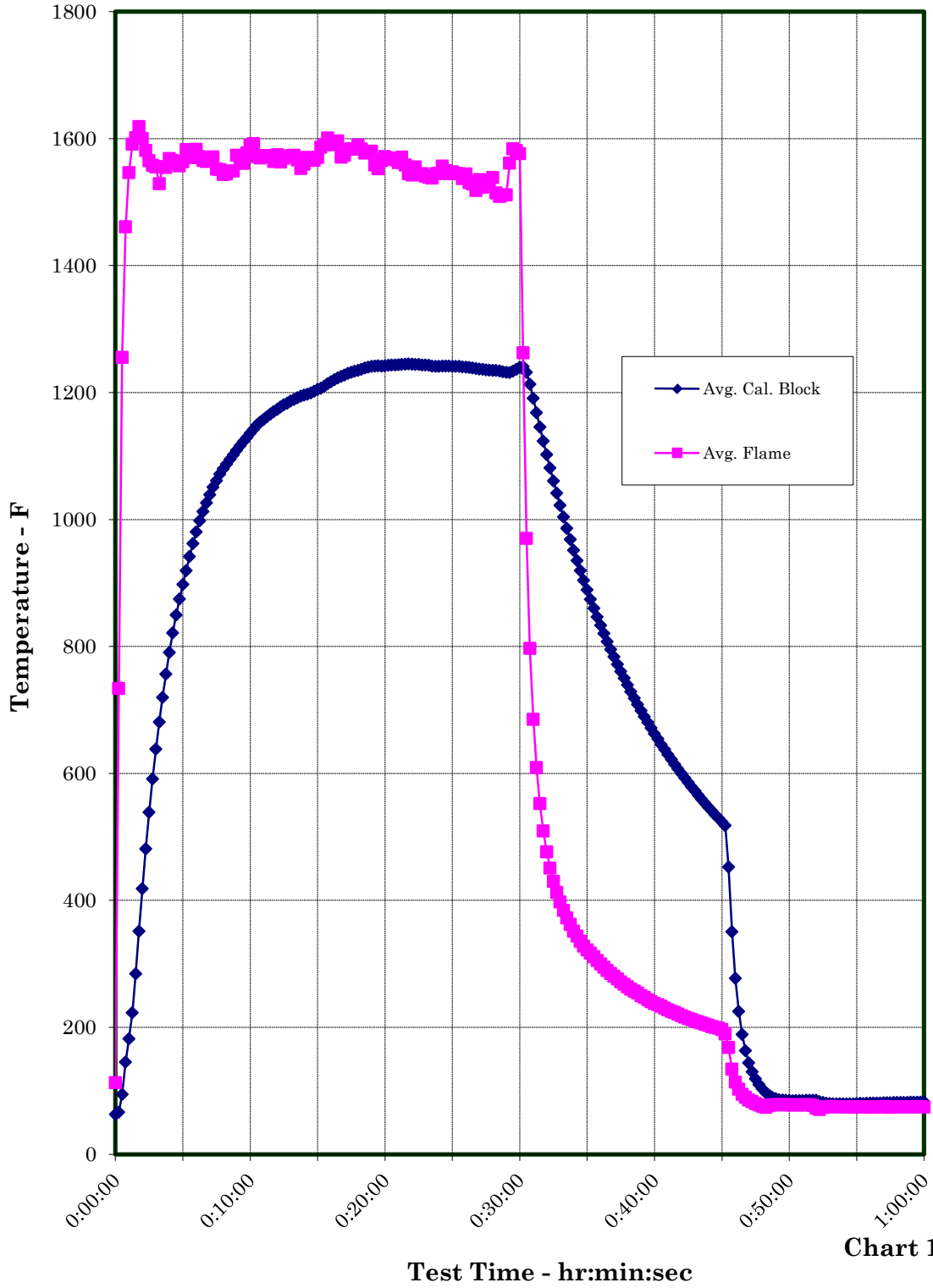
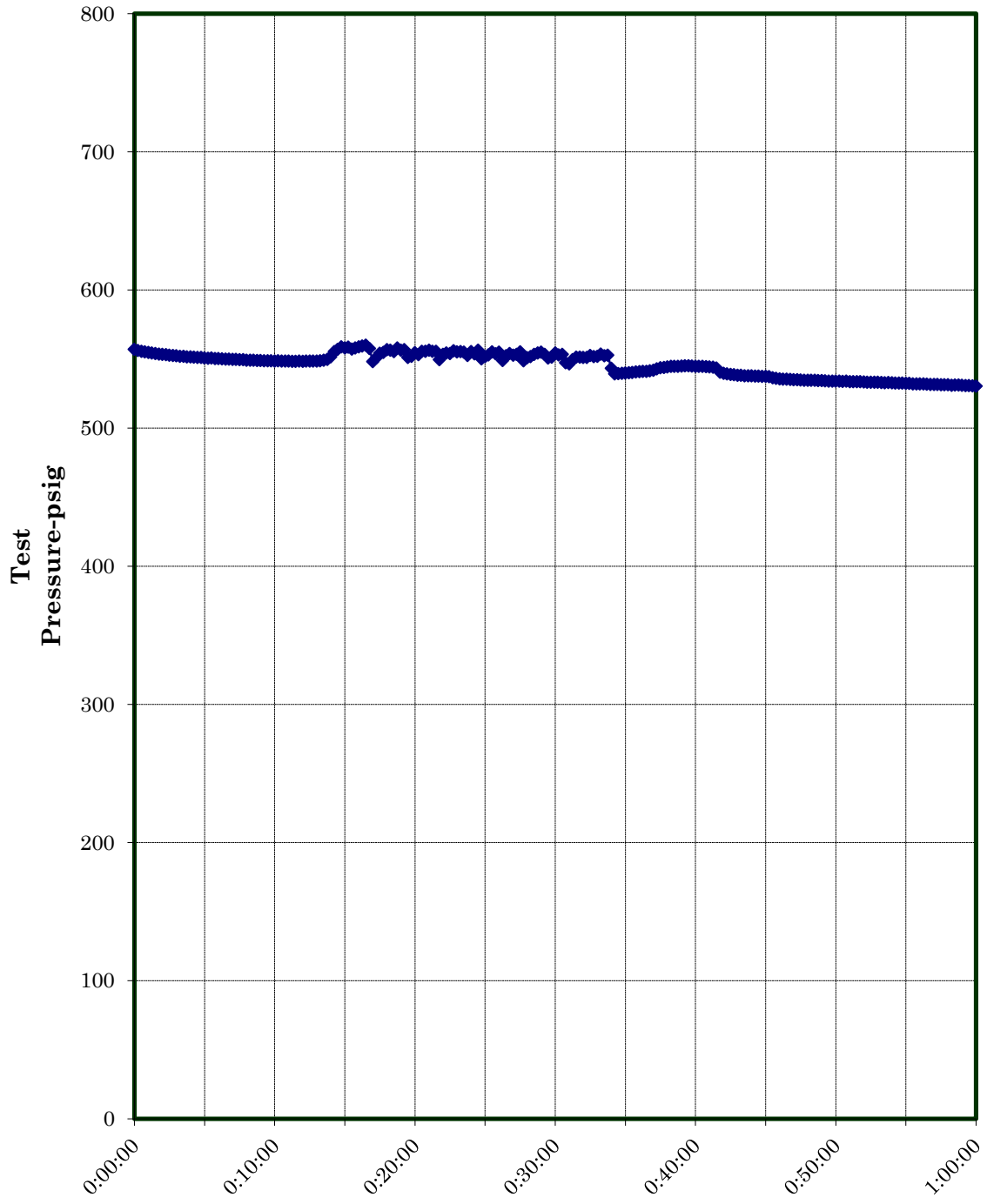


Chart 1

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Pressure versus Time Chart



Test Time - hr:min:sec

Chart 2

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Test Gasket Prior to Burn

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Test Setup Prior to Burn



Test Gasket During Burn

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Test Gasket During Burn



Test Gasket Post-Burn

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Fire Test Information

Customer: Teadit N.A. Inc.

Date: 2/9/2015

Product Code: Teadit Style 913M, 6 Inch Class 300

Project Number: 215046

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	
13:39:00	557	36171	64	63	62	62	63	114	136	99	102	113
13:39:15	556	36186	67	70	64	63	66	882	774	630	649	734
13:39:30	556	36177	94	133	74	77	95	1374	1356	1031	1261	1256
13:39:45	555	36180	145	228	95	112	145	1536	1572	1222	1514	1461
13:40:00	555	36131	199	237	127	165	182	1541	1647	1457	1540	1546
13:40:15	554	36182	247	247	171	226	223	1522	1726	1561	1555	1591
13:40:30	554	36165	303	320	224	290	284	1512	1734	1584	1575	1601
13:40:45	554	36157	361	410	282	353	352	1550	1735	1629	1562	1619
13:41:00	553	36172	420	498	345	410	418	1487	1731	1636	1547	1600
13:41:15	553	36183	475	580	407	462	481	1416	1731	1643	1535	1581
13:41:30	553	36206	523	651	470	511	539	1383	1743	1614	1521	1565
13:41:45	553	36191	564	713	529	558	591	1388	1738	1587	1518	1558
13:42:00	552	36203	601	765	583	603	638	1366	1755	1585	1516	1556
13:42:15	552	36194	633	813	633	645	681	1287	1756	1564	1508	1529
13:42:30	552	36177	660	856	678	685	720	1351	1759	1610	1502	1556
13:42:45	552	36189	687	896	721	721	756	1336	1753	1630	1499	1555
13:43:00	552	36186	713	932	762	755	791	1388	1757	1632	1497	1569
13:43:15	551	36197	738	963	800	784	821	1387	1741	1641	1494	1566
13:43:30	551	36190	760	993	835	810	850	1380	1743	1635	1489	1562
13:43:45	551	36213	780	1020	866	832	875	1357	1752	1631	1488	1557
13:44:00	551	36217	797	1044	895	854	898	1367	1755	1634	1498	1564
13:44:15	551	36221	814	1066	921	876	919	1429	1764	1635	1502	1583
13:44:30	551	36210	833	1087	947	899	942	1434	1763	1622	1508	1582
13:44:45	550	36220	850	1107	970	921	962	1418	1746	1618	1497	1570
13:45:00	550	36222	866	1124	991	941	981	1445	1749	1643	1495	1583
13:45:15	550	36230	881	1141	1010	959	998	1399	1753	1635	1500	1572
13:45:30	550	36234	893	1156	1026	975	1013	1400	1746	1619	1497	1566

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13:45:45	550	36243	904	1170	1041	990	1026	1390	1749	1617	1499	1564
13:46:00	550	36229	914	1184	1053	1005	1039	1396	1772	1615	1490	1568
13:46:15	550	36267	924	1196	1065	1018	1051	1409	1789	1599	1487	1571
13:46:30	549	36255	933	1208	1074	1030	1061	1371	1742	1612	1483	1552
13:46:45	549	36237	941	1219	1084	1041	1071	1369	1737	1610	1489	1551
13:47:00	549	36263	947	1228	1093	1051	1080	1334	1729	1619	1492	1544
13:47:15	549	36253	951	1237	1102	1059	1087	1331	1730	1628	1488	1544
13:47:30	549	36288	956	1246	1110	1067	1095	1342	1734	1621	1498	1549
13:47:45	549	36290	960	1253	1118	1076	1102	1334	1737	1621	1503	1549
13:48:00	549	36305	966	1260	1126	1084	1109	1396	1770	1627	1502	1574
13:48:15	549	36307	973	1266	1133	1092	1116	1387	1752	1641	1495	1569
13:48:30	549	36288	979	1272	1141	1099	1123	1382	1733	1632	1496	1561
13:48:45	549	36310	985	1276	1149	1106	1129	1404	1761	1643	1502	1578
13:49:00	549	36313	991	1281	1157	1114	1136	1429	1777	1652	1501	1590
13:49:15	549	36325	998	1286	1164	1121	1142	1437	1787	1648	1496	1592
13:49:30	549	36331	1005	1290	1171	1128	1149	1403	1773	1619	1492	1572
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13:50:30	548	36336	1022	1305	1186	1152	1166	1386	1771	1618	1510	1571
13:50:45	548	36359	1025	1308	1190	1157	1170	1368	1755	1618	1514	1564
13:51:00	548	36368	1027	1311	1194	1162	1174	1391	1765	1626	1517	1575
13:51:15	549	36402	1031	1313	1198	1167	1177	1367	1761	1611	1513	1563
13:51:30	548	36416	1034	1316	1201	1171	1181	1408	1747	1612	1509	1569
13:51:45	549	36421	1037	1318	1203	1175	1183	1410	1767	1609	1505	1573
13:52:00	549	36450	1041	1320	1205	1180	1187	1414	1770	1599	1507	1573
13:52:15	549	36470	1044	1322	1207	1184	1189	1399	1765	1622	1508	1574
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13:53:00	552	36748	1050	1327	1212	1195	1196	1379	1768	1576	1516	1560
13:53:15	555	36919	1051	1329	1212	1197	1197	1393	1779	1602	1507	1570
13:53:30	557	37155	1054	1330	1214	1200	1200	1389	1752	1628	1507	1569
13:53:45	559	37478	1056	1330	1217	1205	1202	1400	1749	1611	1503	1566
13:54:00	558	36343	1059	1331	1220	1209	1205	1396	1777	1610	1498	1570
13:54:15	559	38165	1061	1331	1222	1213	1207	1429	1777	1637	1503	1587
13:54:30	557	36979	1066	1332	1225	1218	1210	1447	1777	1634	1503	1590
13:54:45	558	37747	1072	1332	1229	1223	1214	1479	1780	1644	1501	1601
13:55:00	559	36661	1078	1332	1231	1227	1217	1486	1756	1632	1502	1594

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13:55:15	559	38274	1084	1332	1234	1232	1221	1474	1768	1616	1503	1590
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13:55:45	558	37224	1093	1332	1237	1240	1226	1440	1722	1614	1507	1571
13:56:00	548	36606	1096	1332	1239	1243	1228	1464	1718	1600	1513	1574
13:56:15	551	37012	1100	1332	1241	1247	1230	1477	1753	1597	1506	1583
13:56:30	554	37162	1104	1333	1241	1250	1232	1473	1758	1600	1505	1584
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13:57:00	557	37601	1109	1333	1242	1255	1235	1465	1769	1625	1500	1590
13:57:15	556	36625	1112	1333	1244	1257	1237	1458	1755	1621	1500	1584
13:57:30	555	37282	1115	1333	1246	1260	1239	1450	1746	1609	1504	1577
13:57:45	558	37514	1118	1333	1247	1262	1240	1457	1756	1593	1509	1579
13:58:00	556	37697	1120	1333	1247	1264	1241	1454	1767	1590	1509	1580
13:58:15	557	36938	1120	1334	1247	1266	1242	1403	1738	1579	1513	1558
13:58:30	551	38143	1120	1334	1246	1268	1242	1397	1743	1562	1508	1553
13:58:45	552	37066	1119	1334	1244	1269	1242	1417	1752	1580	1512	1565
13:59:00	555	37487	1119	1335	1244	1270	1242	1435	1753	1583	1516	1572
13:59:15	553	36586	1120	1336	1243	1272	1243	1406	1752	1597	1522	1569
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14:00:45	549	37525	1119	1340	1244	1278	1245	1343	1743	1576	1517	1545
14:01:00	553	37317	1116	1340	1244	1278	1245	1360	1747	1551	1513	1543
14:01:15	554	38123	1114	1341	1243	1278	1244	1383	1769	1556	1514	1556
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14:01:45	556	37304	1111	1341	1241	1281	1244	1342	1762	1555	1520	1545
14:02:00	555	37997	1109	1342	1241	1282	1244	1349	1771	1525	1519	1541
14:02:15	555	37511	1106	1343	1240	1282	1243	1330	1770	1535	1521	1539
14:02:30	555	37342	1104	1343	1238	1282	1242	1337	1759	1532	1523	1538
14:02:45	552	37172	1101	1344	1237	1283	1241	1358	1760	1537	1523	1545
14:03:00	555	37373	1100	1345	1237	1283	1241	1355	1759	1542	1526	1546
14:03:15	554	37145	1099	1346	1238	1284	1242	1369	1765	1566	1527	1557
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14:04:00	552	37139	1094	1348	1239	1284	1241	1314	1753	1586	1538	1548
14:04:15	553	37814	1091	1349	1240	1284	1241	1309	1756	1575	1540	1545
14:04:30	555	37791	1089	1350	1240	1285	1241	1328	1749	1570	1532	1545

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14:04:45	554	37272	1087	1350	1239	1285	1240	1294	1741	1578	1535	1537
14:05:00	555	36882	1084	1351	1240	1285	1240	1306	1743	1592	1536	1544
14:05:15	549	36842	1081	1352	1241	1284	1240	1264	1747	1575	1537	1531
14:05:30	552	36659	1077	1353	1240	1284	1239	1257	1750	1566	1541	1529
14:05:45	554	38228	1073	1354	1240	1284	1238	1253	1741	1539	1540	1518
14:06:00	553	37008	1070	1355	1239	1284	1237	1297	1758	1552	1534	1535
14:06:15	553	36777	1068	1356	1238	1284	1237	1261	1745	1551	1536	1523
14:06:30	555	38079	1065	1357	1237	1284	1236	1263	1755	1567	1537	1531
14:06:45	549	37195	1062	1358	1237	1284	1235	1254	1756	1584	1541	1534
14:07:00	551	37701	1059	1359	1237	1285	1235	1276	1762	1570	1546	1539
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14:07:45	554	36805	1050	1360	1236	1285	1233	1246	1725	1535	1537	1511
14:08:00	555	38408	1048	1360	1235	1284	1232	1258	1720	1529	1538	1511
14:08:15	553	37288	1047	1361	1233	1285	1232	1387	1767	1563	1529	1562
14:08:30	551	37271	1051	1361	1234	1288	1234	1441	1786	1588	1520	1584
14:08:45	551	36455	1057	1360	1237	1292	1237	1419	1767	1623	1517	1582
14:09:00	554	38254	1063	1360	1240	1295	1240	1404	1769	1622	1510	1576
14:09:15	553	37648	1066	1359	1242	1296	1241	1137	1298	1232	1383	1263
14:09:30	553	37499	1056	1351	1234	1286	1232	938	916	926	1101	970
14:09:45	547	36832	1040	1336	1214	1263	1213	825	706	754	902	797
14:10:00	547	36978	1022	1316	1190	1235	1191	750	572	644	775	685
14:10:15	550	37184	1005	1295	1165	1208	1168	697	480	569	690	609
14:10:30	551	37201	988	1273	1140	1181	1146	655	415	510	629	552
14:10:45	551	36576	971	1252	1115	1155	1123	620	368	465	584	509
14:11:00	551	36433	955	1232	1091	1130	1102	594	333	430	548	476
14:11:15	551	36875	940	1211	1067	1106	1081	574	305	404	520	451
14:11:30	553	38095	925	1191	1044	1083	1061	556	284	381	498	430
14:11:45	552	37078	910	1171	1023	1061	1041	539	268	362	480	412
14:12:00	552	37309	896	1152	1002	1039	1022	524	254	348	464	398
14:12:15	554	37768	882	1133	981	1019	1004	512	243	333	449	384
14:12:30	552	37128	868	1115	962	999	986	498	234	320	437	372
14:12:45	553	37229	855	1096	943	980	969	484	228	310	425	362
14:13:00	543	36451	842	1078	925	961	952	474	221	297	414	352
14:13:15	539	36552	830	1061	907	943	935	466	216	287	405	344
14:13:30	539	36519	818	1044	890	926	920	457	211	277	397	336
14:13:45	540	36518	806	1027	874	909	904	447	206	269	389	328
14:14:00	540	36500	795	1011	858	893	889	439	203	264	382	322

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14:14:15	540	36511	783	994	843	877	874	433	201	259	374	317
14:14:30	540	36483	772	979	828	862	860	426	198	253	367	311
14:14:45	541	36512	762	964	813	847	847	416	196	248	361	305
14:15:00	541	36531	752	949	799	833	833	411	193	240	354	300
14:15:15	541	36535	742	934	786	819	820	404	190	236	348	295
14:15:30	541	36534	732	920	773	806	808	398	187	230	342	289
14:15:45	542	36543	722	906	760	793	795	393	184	225	336	285
14:16:00	542	36593	713	893	749	780	784	387	182	222	331	281
14:16:15	543	36617	704	879	736	768	772	381	180	218	326	276
14:16:30	544	36672	695	867	725	756	761	374	178	213	321	272
14:16:45	544	36716	686	854	714	745	750	368	176	210	316	268
14:17:00	544	36812	678	842	703	734	739	362	174	207	312	264
14:17:15	545	36791	669	830	692	723	729	356	172	204	308	260
14:17:30	545	36820	661	818	682	713	719	351	171	201	304	257
14:17:45	545	36812	653	807	672	703	709	348	169	199	300	254
14:18:00	545	36865	645	795	662	693	699	339	168	196	296	250
14:18:15	545	36870	638	784	653	683	690	336	166	193	293	247
14:18:30	545	36843	630	774	643	674	680	330	165	191	288	244
14:18:45	545	36884	623	763	634	665	671	326	163	188	284	240
14:19:00	545	36883	616	753	625	656	663	322	161	186	281	238
14:19:15	545	36887	609	743	617	648	654	321	160	183	278	236
14:19:30	545	36896	602	733	608	639	646	318	158	181	275	233
14:19:45	545	36903	595	724	600	631	638	313	156	179	272	230
14:20:00	544	36893	588	714	593	623	630	309	155	177	269	228
14:20:15	544	36888	582	705	585	616	622	305	154	175	266	225
14:20:30	544	36863	576	696	577	608	614	303	153	173	264	223
14:20:45	540	36664	570	687	570	601	607	300	151	171	261	221
14:21:00	540	36598	564	678	563	594	600	296	150	169	258	218
14:21:15	539	36573	558	670	556	587	593	292	149	167	256	216
14:21:30	539	36570	552	662	549	580	586	289	148	165	254	214
14:21:45	539	36542	546	654	542	573	579	286	146	163	253	212
14:22:00	538	36515	540	646	536	567	572	283	146	161	250	210
14:22:15	538	36498	535	638	529	560	566	279	145	160	249	208
14:22:30	538	36490	530	630	523	554	559	278	144	159	246	207
14:22:45	538	36471	524	623	516	548	553	276	143	157	243	205
14:23:00	538	36473	519	616	510	542	547	274	142	156	241	203
14:23:15	538	36474	514	609	505	536	541	271	141	155	238	201
14:23:30	538	36471	509	601	499	531	535	268	140	155	236	200

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14:23:45	537	36454	504	594	494	525	529	266	139	155	234	199
14:24:00	537	36461	499	588	488	520	524	262	138	154	232	197
14:24:15	537	36460	493	581	483	514	518	215	159	161	223	190
14:24:30	536	36379	395	481	461	472	452	114	164	192	202	168
14:24:45	536	36360	285	333	398	386	351	85	130	177	144	134
14:25:00	536	36346	210	244	339	315	277	76	108	157	113	114
14:25:15	535	36331	158	188	293	261	225	72	96	141	101	103
14:25:30	535	36357	126	152	256	221	189	71	89	124	94	95
14:25:45	535	36317	106	129	226	191	163	69	83	116	90	90
14:26:00	535	36302	93	112	202	168	144	68	79	107	87	85
14:26:15	535	36321	85	101	182	151	130	68	77	102	85	83
14:26:30	535	36312	79	93	165	138	119	67	75	97	81	80
14:26:45	535	36294	75	86	151	127	110	66	73	92	79	78
14:27:00	535	36264	72	82	139	118	103	66	71	89	77	76
14:27:15	535	36267	70	78	129	111	97	65	70	86	75	74
14:27:30	535	36272	69	76	121	106	93	67	73	87	79	77
14:27:45	534	36266	68	74	115	102	90	68	73	88	81	78
14:28:00	534	36288	68	73	110	99	88	68	74	87	82	78
14:28:15	534	36267	67	72	106	98	86	69	74	87	82	78
14:28:30	534	36265	68	72	104	97	85	70	74	85	83	78
14:28:45	534	36281	68	72	102	97	85	70	74	84	83	78
14:29:00	534	36276	68	72	101	97	85	70	75	83	83	78
14:29:15	534	36287	68	71	100	98	84	71	74	83	83	78
14:29:30	534	36282	69	72	99	98	85	71	74	83	83	78
14:29:45	534	36251	69	72	98	99	85	71	74	83	83	78
14:30:00	534	36282	69	72	98	99	85	72	74	83	82	78
14:30:15	534	36265	70	72	97	101	85	72	74	82	83	78
14:30:30	534	36260	70	72	97	100	85	73	74	82	83	78
14:30:45	534	36283	70	73	96	101	85	68	72	86	81	77
14:31:00	533	36252	70	73	96	100	85	64	70	82	74	73
14:31:15	533	36267	68	72	94	98	83	62	68	79	72	70
14:31:30	533	36269	67	71	93	96	82	66	72	81	77	74
14:31:45	533	36261	66	70	91	94	80	67	72	81	78	75
14:32:00	533	36249	66	70	91	93	80	67	72	82	79	75
14:32:15	533	36251	66	70	90	92	80	67	72	82	80	75
14:32:30	533	36273	66	70	89	92	79	68	72	80	79	75
14:32:45	533	36239	66	70	89	92	79	68	72	79	80	75
14:33:00	533	36248	66	70	89	93	80	68	72	79	79	75

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14:33:15	533	36268	67	70	88	93	80	69	73	78	79	75
14:33:30	533	36261	67	70	88	93	80	69	72	78	79	75
14:33:45	533	36247	67	70	88	93	80	69	72	77	78	74
14:34:00	532	36244	68	70	88	94	80	70	72	77	79	75
14:34:15	532	36242	68	71	88	94	80	70	71	78	79	75
14:34:30	532	36245	68	70	88	94	80	70	71	77	80	75
14:34:45	532	36261	68	71	87	95	80	70	71	77	80	75
14:35:00	532	36248	69	71	88	95	81	70	71	76	79	74
14:35:15	532	36250	69	71	87	95	81	71	71	76	79	74
14:35:30	532	36249	69	71	87	95	81	71	71	76	79	74
14:35:45	532	36261	70	71	87	95	81	71	71	77	80	75
14:36:00	532	36257	70	72	87	96	81	71	72	77	80	75
14:36:15	532	36247	70	72	87	96	81	71	71	77	79	75
14:36:30	531	36242	70	72	86	96	81	71	71	75	79	74
14:36:45	531	36258	71	72	87	97	82	72	71	76	79	75
14:37:00	531	36240	71	72	87	97	82	72	71	76	80	75
14:37:15	531	36252	71	72	87	97	82	72	71	76	80	75
14:37:30	531	36266	72	72	86	97	82	72	71	76	80	75
14:37:45	531	36270	72	72	86	97	82	72	71	76	80	75
14:38:00	531	36242	72	72	86	98	82	73	70	76	80	75
14:38:15	531	36214	72	72	86	98	82	72	70	76	80	75
14:38:30	531	36243	72	72	86	98	82	73	70	77	80	75
14:38:45	531	36231	73	72	86	97	82	73	70	76	79	75
14:39:00	530	36254	73	73	86	97	82	73	70	76	78	74

Yarmouth Research and Technology, LLC

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:	-83	mls
System Relief Water Collected:	0	mls
Calculated Water Loss:	0	mls
Average Leak Rate:	0.0	ml/min
Average Seal Circumference:	24.3	inches
Allowable Leak Rate:	24.3	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.:	15.5	minutes
Minimum Allowable Time at Temperature:	15	minutes
Average Cal. Block Temperature During Burn:	1065	deg. F
Maximum Average Cal. Block Temperature During Burn:	1245	deg. F
Minimum Average Cal. Block Temperature During Burn:	63	deg. F
Average Flame Temperature During Burn:	1539	deg. F
Maximum Average Flame Temperature During Burn:	1619	deg. F
Minimum Average Flame Temperature During Burn:	113	deg. F

Notes

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

Depressurization - Repressurization Test Information

Customer: Teadit N.A. Inc.

Date: 2/9/2015

Product Code: Teadit Style 913M, 6 Inch Class 300

Project Number: 215046

System pressure was lowered to 0 and then repressurized.

Operational Test Raw Data

Time	Pressure (psig)	Average Block Temp-F
14:48:43	550	83
14:48:58	550	83
14:49:13	550	83
14:49:28	550	83
14:49:43	550	83
14:49:58	550	82
14:50:13	550	83
14:50:28	550	82
14:50:43	549	82
14:50:58	550	82
14:51:13	549	82
14:51:28	549	82
14:51:43	549	82
14:51:58	549	82
14:52:13	549	82
14:52:28	549	82
14:52:43	549	82
14:52:58	548	82
14:53:13	549	82
14:53:28	549	82
14:53:43	548	82

Leakage was collected manually.

Total External Leakage Collected Over 5 Minute Duration:	0	mls
Average Leak Rate Over 5 Minute Duration:	0	ml/min
Allowable Leak Rate:	24.3	ml/min

Was the Leakage Below the Allowable?	Yes
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