

# **Fire Test Report**

**API Standard 6FB, Fourth Edition, 2019**

*Performed for*

**Durlon**

[www.durlon.com](http://www.durlon.com)



**6 inch Class 300 FG Spiral Wound Gasket  
Product Code: 8610600BBCC**

**Project Number: 219501  
Test Date: December 6, 2019**



*Performed by*

**YARMOUTH RESEARCH AND TECHNOLOGY, LLC**

434 Walnut Hill Road  
North Yarmouth, ME 04097 USA  
(207) 829-5359  
[info@yarmouthresearch.com](mailto:info@yarmouthresearch.com)  
[www.yarmouthresearch.com](http://www.yarmouthresearch.com)

# Yarmouth Research and Technology, LLC

## API 6FB FIRE TEST REPORT

<b>Customer:</b>	Durlon	<b>Date:</b>	12/6/2019
<b>Project Number:</b>	219501		
<b>Product Description:</b>	6" 300 FG Spiral Wound Gasket		
<b>Product Code:</b>	8610600BCC		
<b>Specification:</b>	API 6FB, Fourth Edition, 2019 Non-Bending, Type 1 Test		
<b>Gasket Thickness:</b>	0.182	inches	
<b>Seal Area OD:</b>	8.25	<b>Seal Area ID:</b>	7.13 inches
<b>Mean Seal Diameter:</b>	7.69	inches	
<b>Mean Circumference:</b>	24.2	inches	
<b>Allowable Leakage:</b>	24.2	ml/min	
<b>Nominal Test Pressure:</b>	555	psig	
<b>YRT Technician:</b>	Dean Frank		
<b>Version of YRT's FIRE-Control 6FB Software: B</b>			
<b>Equipment Confirmed to be in Calibration to NIST Standards: Yes</b>			

### *Burn and Cool Down Test*

Burn Start Time:	8:46:00	
Burn / Cooldown Duration:	60	minutes
Average Pressure During Burn/Cooldown:	576	psig
Leak Rate During Burn/Cool Down:	1.0	ml/min
Allowable External Leak Rate:	24.2	ml/min
Amount of Time of Avg. Cal. Block > 1200 deg.:	16.0	minutes
Were Test Conditions Within Compliance?	Yes	
Was the Leakage Below the Allowable?	Yes	

### *Depressurization - Repressurization Test*

Average Pressure During Test:	567	psig
Gasket Leak Rate:	0	ml/min
Allowable External Leak Rate:	24.2	ml/min
Was the Leakage Below the Allowable?	Yes	
<b>Does the Gasket Pass or Fail API 6FB?</b>	<b>PASS</b>	

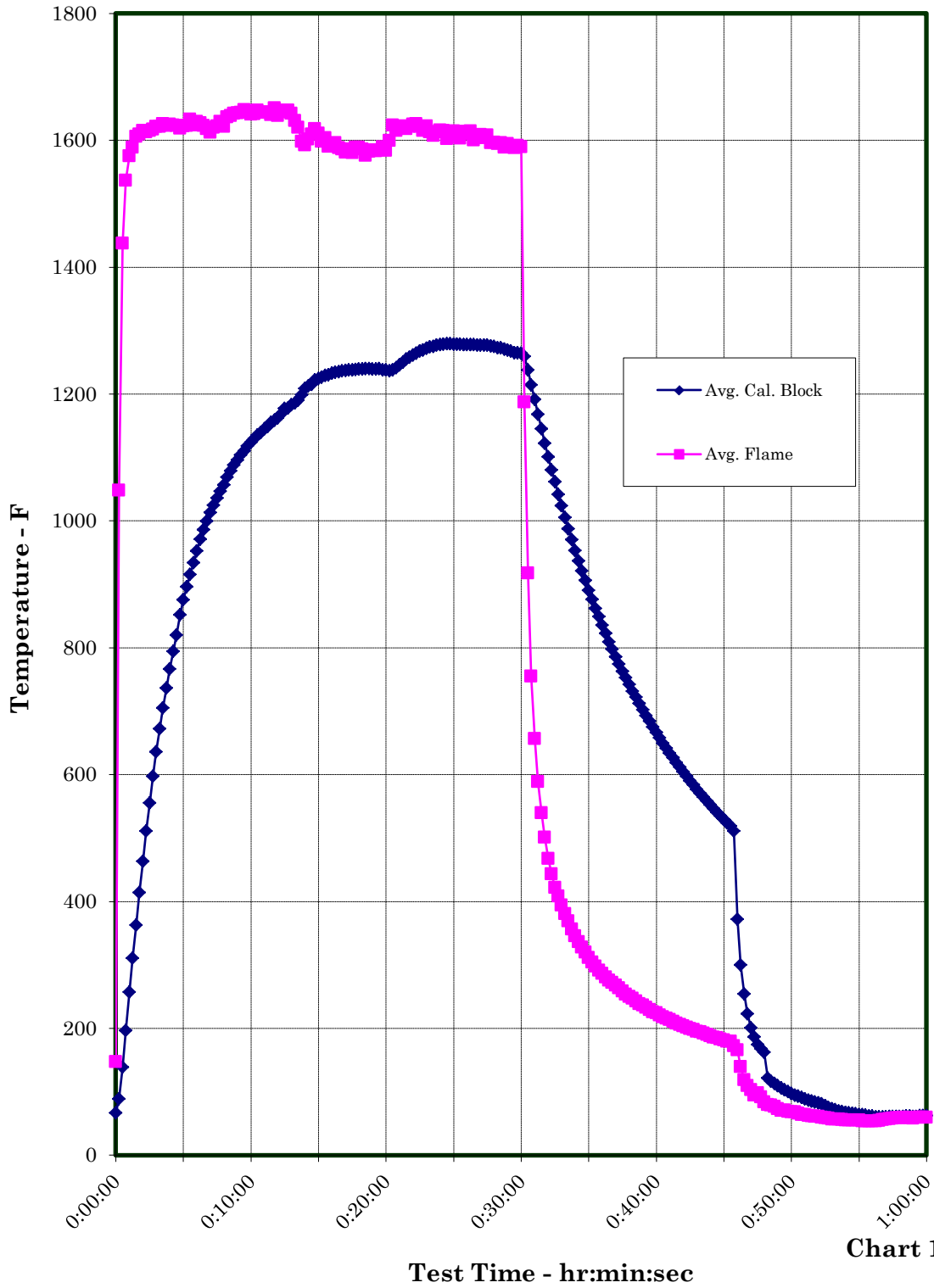
Certified By:



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

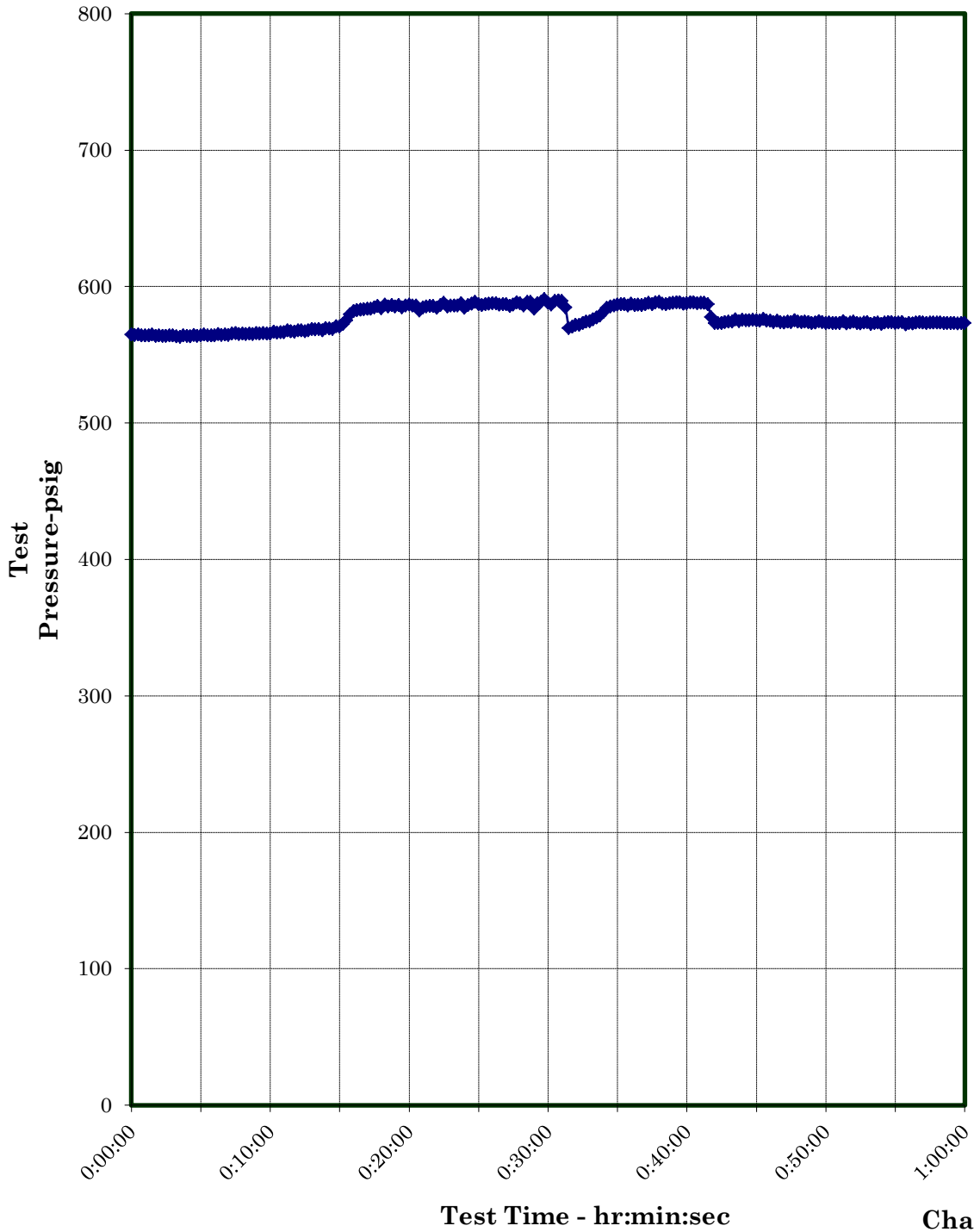


**Temperature verses Time Chart**



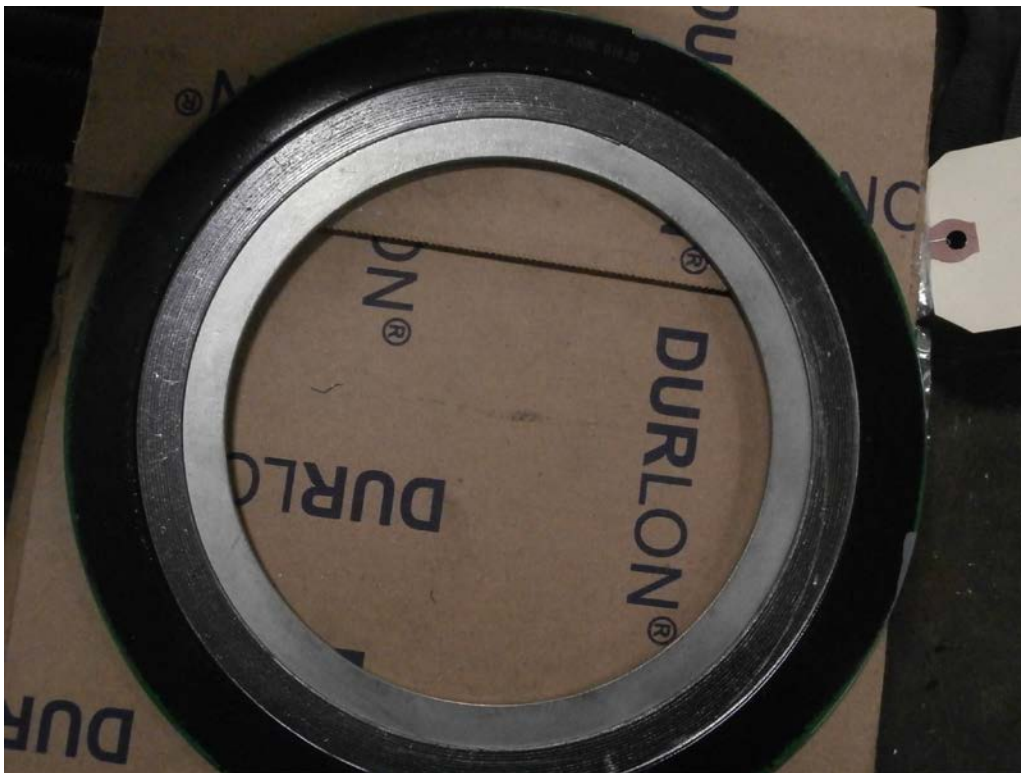
**Chart 1**

**Pressure versus Time Chart**



**Chart 2**

Yarmouth Research and Technology, LLC



Test Gasket Prior to Burn

Yarmouth Research and Technology, LLC



Test Setup Prior to Burn



Test Gasket During Burn



Yarmouth Research and Technology, LLC



Test Gasket During Burn



Test Gasket Post-Burn

## Yarmouth Research and Technology, LLC

### Fire Test Information

Customer: Durlon

Date: 12/6/2019

Product Description: 6" 300 FG Spiral Wound Gasket

Project Number: 219501

### Fire Test Raw Data

Time	Pressure (psig)	Water Volume (mls)	Cal. 1 Block Temp - F	Cal. 2 Block Temp - F	Cal. 3 Block Temp - F	Cal. 4 Block Temp - F	Average Block Temp - F	Flame 1 Temp - F	Flame 2 Temp - F	Flame 3 Temp - F	Flame 4 Temp - F	Average Flame Temp - F
8:46:00	565	40774	63	68	70	66	67	111	149	147	183	148
8:46:15	564	40826	79	99	97	81	89	948	973	1188	1083	1048
8:46:30	565	40806	108	160	158	129	139	1416	1308	1539	1486	1437
8:46:45	564	40799	156	226	219	185	197	1571	1395	1582	1600	1537
8:47:00	564	40806	208	293	284	243	257	1623	1409	1636	1634	1576
8:47:15	564	40828	246	354	345	297	311	1643	1416	1656	1641	1589
8:47:30	565	40742	282	414	405	351	363	1654	1440	1690	1641	1606
8:47:45	564	40833	325	469	460	401	414	1645	1440	1704	1650	1610
8:48:00	564	40762	370	523	513	448	464	1643	1456	1719	1643	1615
8:48:15	564	40740	414	576	563	491	511	1632	1456	1713	1650	1613
8:48:30	564	40825	455	624	610	531	555	1647	1459	1710	1645	1615
8:48:45	564	40871	495	671	653	570	597	1647	1456	1719	1647	1617
8:49:00	564	40840	531	714	693	606	636	1659	1449	1722	1656	1622
8:49:15	563	40842	563	756	730	640	672	1654	1449	1729	1654	1622
8:49:30	563	40924	588	793	766	673	705	1659	1452	1733	1659	1626
8:49:45	564	40835	613	829	801	703	737	1654	1458	1733	1648	1623
8:50:00	564	40808	640	864	831	730	766	1657	1467	1731	1647	1626
8:50:15	564	40852	664	894	862	757	794	1656	1463	1729	1648	1624
8:50:30	564	40882	684	925	889	781	820	1652	1463	1720	1657	1623
8:50:45	564	40842	739	952	914	804	852	1641	1463	1724	1648	1619
8:51:00	564	40814	759	979	937	826	875	1650	1465	1719	1656	1623
8:51:15	565	40784	774	1004	961	846	896	1647	1467	1722	1657	1623
8:51:30	564	40886	790	1027	982	864	916	1674	1463	1735	1659	1633
8:51:45	564	40867	802	1049	1002	883	934	1645	1463	1726	1661	1624
8:52:00	564	40932	819	1069	1020	901	952	1657	1468	1729	1665	1630
8:52:15	565	40816	842	1089	1038	916	971	1645	1476	1726	1661	1627
8:52:30	564	40823	855	1107	1054	927	986	1616	1477	1724	1674	1623



## Yarmouth Research and Technology, LLC

8:52:45	565	40865	867	1125	1069	937	1000	1591	1490	1704	1688	1618
8:53:00	565	40866	880	1143	1085	946	1014	1551	1488	1711	1699	1612
8:53:15	565	40984	891	1157	1099	952	1025	1571	1499	1715	1695	1620
8:53:30	566	40937	903	1171	1112	959	1036	1594	1506	1693	1697	1623
8:53:45	565	40959	912	1186	1123	966	1047	1602	1510	1710	1697	1630
8:54:00	565	40810	921	1198	1135	973	1057	1575	1512	1710	1690	1622
8:54:15	565	40889	939	1211	1146	979	1069	1623	1504	1717	1702	1637
8:54:30	565	40898	948	1222	1155	990	1079	1641	1497	1726	1690	1639
8:54:45	565	40903	957	1233	1162	999	1088	1641	1499	1729	1699	1642
8:55:00	566	40936	963	1243	1171	1008	1096	1638	1510	1726	1699	1643
8:55:15	565	40914	970	1252	1179	1015	1104	1647	1510	1719	1699	1644
8:55:30	566	40971	975	1261	1184	1022	1111	1657	1513	1724	1699	1648
8:55:45	565	40941	981	1270	1191	1029	1118	1638	1515	1720	1710	1646
8:56:00	566	40911	986	1278	1197	1035	1124	1603	1519	1733	1708	1641
8:56:15	567	40977	991	1287	1202	1038	1130	1614	1519	1726	1706	1641
8:56:30	566	41000	997	1292	1207	1044	1135	1639	1522	1728	1701	1648
8:56:45	567	40965	1000	1299	1211	1049	1140	1618	1531	1724	1702	1644
8:57:00	567	40897	1004	1305	1216	1053	1145	1603	1533	1733	1706	1644
8:57:15	568	40989	1006	1312	1220	1056	1149	1607	1537	1733	1702	1645
8:57:30	567	41037	1017	1317	1225	1060	1155	1591	1537	1722	1711	1640
8:57:45	567	40990	1020	1324	1229	1062	1159	1618	1539	1726	1719	1651
8:58:00	568	40948	1022	1330	1233	1065	1163	1569	1542	1719	1726	1639
8:58:15	568	41046	1024	1333	1236	1083	1169	1578	1546	1737	1717	1645
8:58:30	567	41043	1044	1339	1240	1085	1177	1580	1557	1733	1720	1648
8:58:45	568	41009	1044	1342	1242	1085	1178	1582	1557	1729	1720	1647
8:59:00	569	41004	1054	1346	1245	1087	1183	1576	1553	1726	1715	1643
8:59:15	569	41010	1058	1348	1249	1089	1186	1562	1539	1729	1693	1631
8:59:30	569	41009	1072	1348	1252	1089	1190	1526	1540	1753	1663	1621
8:59:45	568	41060	1105	1348	1256	1085	1199	1499	1535	1755	1602	1598
9:00:00	570	41072	1119	1348	1258	1110	1209	1492	1519	1764	1594	1592
9:00:15	569	41049	1134	1346	1261	1108	1212	1522	1524	1769	1591	1602
9:00:30	569	41163	1144	1344	1265	1107	1215	1517	1537	1764	1620	1610
9:00:45	571	41178	1155	1342	1269	1123	1222	1535	1546	1755	1636	1618
9:01:00	571	41106	1164	1341	1272	1121	1225	1501	1549	1753	1641	1611
9:01:15	573	41460	1173	1339	1276	1119	1227	1483	1537	1755	1616	1598
9:01:30	575	41504	1182	1339	1278	1117	1229	1485	1539	1758	1634	1604
9:01:45	580	41651	1189	1337	1279	1116	1230	1456	1542	1760	1602	1590
9:02:00	582	41801	1198	1337	1283	1112	1233	1441	1551	1758	1614	1591

## Yarmouth Research and Technology, LLC

9:02:15	582	41934	1206	1335	1285	1110	1234	1459	1548	1762	1614	1596
9:02:30	583	42058	1213	1333	1287	1107	1235	1452	1548	1755	1596	1588
9:02:45	583	42012	1220	1332	1290	1105	1237	1414	1549	1762	1620	1586
9:03:00	584	42026	1225	1330	1292	1101	1237	1436	1557	1756	1575	1581
9:03:15	584	41895	1231	1328	1294	1098	1238	1431	1557	1762	1593	1586
9:03:30	585	42264	1236	1326	1296	1094	1238	1418	1564	1756	1584	1581
9:03:45	586	42456	1240	1324	1297	1092	1238	1418	1566	1760	1611	1589
9:04:00	584	42126	1243	1324	1299	1090	1239	1436	1564	1760	1596	1589
9:04:15	587	42087	1247	1323	1301	1087	1240	1423	1564	1758	1598	1586
9:04:30	585	42081	1251	1321	1303	1085	1240	1416	1564	1755	1569	1576
9:04:45	586	42780	1254	1319	1305	1081	1240	1393	1575	1758	1603	1582
9:05:00	585	41462	1256	1315	1306	1080	1239	1384	1578	1758	1618	1585
9:05:15	586	42388	1260	1314	1308	1076	1240	1384	1580	1753	1616	1583
9:05:30	585	41921	1263	1312	1310	1074	1240	1393	1580	1753	1612	1585
9:05:45	586	41840	1263	1308	1310	1071	1238	1393	1600	1755	1611	1590
9:06:00	587	42247	1265	1305	1312	1069	1238	1371	1594	1749	1620	1584
9:06:15	586	41874	1265	1303	1314	1065	1237	1423	1600	1753	1621	1599
9:06:30	586	42330	1269	1301	1315	1065	1238	1557	1542	1740	1657	1624
9:06:45	582	42121	1276	1305	1315	1069	1241	1575	1526	1740	1621	1616
9:07:00	585	42332	1283	1310	1317	1072	1246	1598	1524	1742	1614	1620
9:07:15	585	42053	1290	1315	1317	1078	1250	1591	1521	1722	1656	1623
9:07:30	586	41446	1297	1321	1319	1083	1255	1594	1521	1710	1648	1618
9:07:45	586	42312	1303	1323	1319	1087	1258	1571	1530	1728	1657	1622
9:08:00	584	41606	1310	1324	1321	1090	1261	1571	1540	1722	1668	1625
9:08:15	586	42131	1315	1326	1323	1094	1265	1580	1535	1731	1657	1626
9:08:30	588	41876	1321	1330	1323	1098	1268	1576	1528	1719	1663	1622
9:08:45	585	42059	1324	1330	1324	1099	1269	1557	1524	1719	1661	1615
9:09:00	586	42073	1330	1330	1324	1103	1272	1557	1526	1737	1670	1623
9:09:15	586	42032	1333	1332	1326	1105	1274	1535	1530	1742	1645	1613
9:09:30	586	42301	1337	1333	1326	1105	1275	1528	1535	1731	1636	1608
9:09:45	588	42299	1339	1335	1328	1105	1277	1524	1535	1735	1657	1613
9:10:00	584	41726	1342	1333	1328	1107	1278	1515	1540	1733	1675	1616
9:10:15	586	42107	1344	1335	1330	1105	1279	1504	1535	1747	1674	1615
9:10:30	587	42568	1346	1335	1330	1105	1279	1492	1528	1740	1650	1603
9:10:45	589	42855	1348	1333	1330	1105	1279	1485	1539	1755	1650	1607
9:11:00	587	42346	1348	1330	1332	1105	1279	1506	1535	1751	1666	1615
9:11:15	586	41617	1350	1328	1332	1105	1279	1512	1531	1735	1666	1611
9:11:30	587	42454	1351	1326	1333	1105	1279	1477	1535	1756	1645	1603

## Yarmouth Research and Technology, LLC

9:11:45	587	42199	1351	1324	1333	1103	1278	1499	1544	1738	1674	1614
9:12:00	588	42393	1353	1323	1333	1103	1278	1477	1549	1753	1663	1611
9:12:15	588	42316	1355	1321	1335	1101	1278	1490	1542	1755	1670	1614
9:12:30	587	42103	1355	1319	1335	1101	1278	1465	1546	1738	1652	1600
9:12:45	587	42258	1355	1319	1335	1099	1277	1463	1548	1756	1648	1604
9:13:00	587	41287	1355	1317	1337	1098	1277	1467	1551	1762	1656	1609
9:13:15	586	41760	1355	1317	1337	1098	1277	1440	1553	1751	1670	1604
9:13:30	587	42027	1355	1317	1339	1096	1277	1447	1560	1755	1670	1608
9:13:45	588	42582	1355	1315	1339	1094	1276	1443	1558	1753	1630	1596
9:14:00	588	41970	1355	1312	1339	1094	1275	1443	1566	1747	1630	1597
9:14:15	586	41670	1353	1308	1339	1092	1273	1434	1571	1738	1636	1595
9:14:30	589	42544	1353	1306	1341	1090	1273	1431	1582	1738	1632	1596
9:14:45	589	41402	1351	1301	1341	1089	1271	1405	1580	1753	1616	1589
9:15:00	583	41821	1351	1297	1341	1087	1269	1409	1589	1751	1629	1595
9:15:15	588	42497	1350	1294	1342	1085	1268	1432	1567	1731	1630	1590
9:15:30	589	42042	1346	1290	1342	1083	1265	1449	1566	1753	1585	1588
9:15:45	591	43035	1341	1292	1342	1085	1265	1494	1558	1771	1544	1592
9:16:00	588	42079	1335	1290	1344	1087	1264	1432	1567	1764	1596	1590
9:16:15	587	41746	1328	1285	1342	1081	1259	1040	1380	1117	1213	1188
9:16:30	589	42489	1297	1263	1332	1058	1238	811	1087	826	946	918
9:16:45	590	42674	1272	1236	1310	1040	1215	666	880	671	804	755
9:17:00	589	42553	1247	1209	1287	1022	1191	577	761	572	716	657
9:17:15	585	41624	1224	1184	1261	1004	1168	518	680	498	658	589
9:17:30	569	41172	1198	1161	1236	986	1145	471	626	448	613	540
9:17:45	571	41064	1166	1139	1213	970	1122	432	586	408	577	501
9:18:00	572	41166	1144	1114	1191	954	1101	396	559	381	534	468
9:18:15	572	41176	1123	1090	1171	937	1080	369	534	358	511	443
9:18:30	573	41164	1103	1069	1153	921	1062	347	514	342	484	422
9:18:45	574	41148	1081	1045	1134	907	1042	336	495	327	475	408
9:19:00	574	41141	1063	1024	1114	894	1024	324	478	313	460	394
9:19:15	576	41196	1044	1004	1094	880	1006	311	468	297	446	381
9:19:30	577	41202	1026	984	1074	867	988	300	457	286	432	369
9:19:45	578	41335	1009	964	1054	855	971	288	448	277	412	356
9:20:00	581	41608	991	946	1035	842	954	279	437	268	399	346
9:20:15	584	41775	975	928	1015	829	937	270	428	259	388	336
9:20:30	585	41751	961	910	997	817	921	262	417	252	379	328
9:20:45	586	41474	945	894	979	806	906	257	412	244	365	320
9:21:00	587	42169	930	878	961	793	891	250	403	239	354	312

## Yarmouth Research and Technology, LLC

9:21:15	587	42384	916	862	945	783	877	241	396	234	345	304
9:21:30	587	42035	903	846	928	772	862	237	388	228	338	298
9:21:45	586	41305	889	831	912	763	849	230	383	223	329	291
9:22:00	587	42620	876	817	896	752	835	225	378	217	324	286
9:22:15	586	41797	864	802	882	743	823	221	370	216	316	281
9:22:30	587	41316	851	790	865	732	810	217	363	212	311	276
9:22:45	586	41512	838	777	853	723	798	217	358	208	306	272
9:23:00	587	42399	828	763	838	714	786	214	351	205	302	268
9:23:15	588	41620	815	752	824	707	775	208	347	201	297	263
9:23:30	587	42570	804	739	811	698	763	205	342	198	288	258
9:23:45	588	42529	793	729	799	689	753	201	338	194	280	253
9:24:00	589	42071	784	716	786	682	742	199	331	192	279	250
9:24:15	587	42410	774	705	775	673	732	198	325	192	273	247
9:24:30	587	41702	765	694	763	666	722	194	320	189	268	243
9:24:45	588	41783	754	684	752	658	712	190	316	185	264	239
9:25:00	588	42113	745	673	739	651	702	189	313	183	261	237
9:25:15	588	41916	736	664	729	644	693	187	307	181	257	233
9:25:30	589	41950	727	655	718	637	684	183	304	178	253	230
9:25:45	587	41990	718	644	707	630	675	181	300	176	246	226
9:26:00	588	41968	711	635	698	622	667	181	297	176	243	224
9:26:15	588	41987	702	626	687	617	658	178	291	172	241	221
9:26:30	588	42002	693	617	678	610	650	176	288	171	237	218
9:26:45	588	42001	685	610	669	603	642	176	284	169	235	216
9:27:00	588	41966	678	601	660	597	634	172	282	167	232	213
9:27:15	588	41998	669	594	651	592	627	171	279	165	228	211
9:27:30	587	41868	662	585	642	585	619	169	275	163	225	208
9:27:45	578	40433	657	577	633	579	612	167	271	163	221	206
9:28:00	573	41139	649	570	626	574	605	165	270	163	217	204
9:28:15	573	41153	642	563	617	568	598	162	266	160	217	201
9:28:30	573	41085	635	556	610	561	591	160	262	160	216	200
9:28:45	574	41043	630	549	601	556	584	158	261	158	214	198
9:29:00	574	41065	622	541	594	550	577	158	257	154	212	195
9:29:15	574	41056	617	534	586	545	571	156	255	154	212	194
9:29:30	576	41007	610	529	579	540	565	156	252	153	207	192
9:29:45	575	41105	604	522	572	534	558	156	250	151	203	190
9:30:00	576	40995	599	516	565	529	552	153	248	151	199	188
9:30:15	575	41016	592	511	558	525	547	151	244	149	198	186
9:30:30	575	41034	586	504	552	520	541	151	243	149	196	185

## Yarmouth Research and Technology, LLC

9:30:45	576	41019	581	498	545	516	535	149	241	149	192	183
9:31:00	575	41063	576	493	538	511	530	147	237	149	192	181
9:31:15	575	40957	570	487	532	507	524	145	234	147	190	179
9:31:30	576	41028	565	480	527	502	519	147	232	147	192	180
9:31:45	575	40982	556	471	520	498	511	144	185	194	167	173
9:32:00	575	40904	315	257	430	486	372	169	180	160	154	166
9:32:15	574	41042	228	171	342	459	300	172	149	120	117	140
9:32:30	575	40960	192	129	279	417	254	162	104	108	100	119
9:32:45	574	40934	174	106	232	379	223	151	99	97	90	109
9:33:00	573	40941	165	90	199	349	201	149	91	91	81	103
9:33:15	574	40960	160	81	178	327	187	131	79	90	77	94
9:33:30	574	40853	156	73	162	307	175	154	82	84	73	98
9:33:45	575	40778	156	70	154	291	168	140	70	82	73	91
9:34:00	574	40876	154	68	149	279	163	115	70	81	70	84
9:34:15	574	40874	63	66	144	212	121	108	66	77	68	80
9:34:30	574	40801	61	64	140	201	117	104	70	73	68	79
9:34:45	574	40888	61	64	138	190	113	97	68	75	66	77
9:35:00	573	40822	59	63	135	181	110	91	63	73	64	73
9:35:15	574	40786	59	61	131	172	106	86	59	72	64	70
9:35:30	574	40828	59	61	127	165	103	86	64	72	61	71
9:35:45	574	40837	57	61	126	158	101	81	63	70	61	69
9:36:00	573	40806	57	59	122	151	97	81	61	70	61	68
9:36:15	574	40817	57	59	118	145	95	79	63	68	61	68
9:36:30	573	40794	57	59	117	140	93	75	61	68	59	66
9:36:45	573	40850	55	59	113	136	91	77	55	64	59	64
9:37:00	573	40809	55	57	111	131	89	73	59	66	57	64
9:37:15	575	40872	55	57	108	127	87	72	57	64	57	63
9:37:30	573	40766	55	57	106	124	86	72	55	63	57	62
9:37:45	574	40740	55	57	104	120	84	70	57	63	55	61
9:38:00	574	40787	55	57	100	117	82	70	55	63	55	61
9:38:15	573	40813	55	57	99	113	81	66	52	64	55	59
9:38:30	573	40813	55	55	93	108	78	64	52	64	54	59
9:38:45	573	40766	55	55	88	104	76	64	50	63	54	58
9:39:00	574	40813	55	55	84	99	73	61	50	64	52	57
9:39:15	572	40935	55	55	81	95	72	61	50	63	52	57
9:39:30	573	40810	55	55	77	91	70	61	52	63	52	57
9:39:45	574	40767	55	55	75	90	69	59	50	63	52	56
9:40:00	572	40834	54	55	73	86	67	57	50	63	52	56



## Yarmouth Research and Technology, LLC

9:40:15	574	40773	55	55	72	84	67	57	50	63	52	56
9:40:30	574	40792	55	55	72	82	66	57	50	61	52	55
9:40:45	574	40809	54	55	70	81	65	57	50	61	52	55
9:41:00	573	40815	54	55	68	77	64	57	50	63	50	55
9:41:15	573	40723	54	55	68	77	64	55	50	61	50	54
9:41:30	574	40789	54	55	68	75	63	55	50	61	50	54
9:41:45	572	40802	54	54	66	73	62	55	48	61	50	54
9:42:00	573	40770	54	54	66	72	62	55	48	61	50	54
9:42:15	573	40796	54	54	64	70	61	55	48	61	50	54
9:42:30	574	40764	54	54	64	70	61	55	50	61	52	55
9:42:45	574	40754	54	54	64	70	61	55	52	63	54	56
9:43:00	573	40757	54	54	64	70	61	57	52	64	54	57
9:43:15	573	40777	55	55	64	70	61	59	52	64	54	57
9:43:30	574	40680	55	55	64	70	61	59	54	66	54	58
9:43:45	573	40774	55	55	64	70	61	59	54	66	55	59
9:44:00	574	40781	55	55	64	70	61	59	54	66	55	59
9:44:15	573	40770	55	55	64	70	61	61	55	66	55	59
9:44:30	573	40790	55	55	66	70	62	59	55	66	55	59
9:44:45	573	40756	55	55	66	70	62	59	55	66	55	59
9:45:00	573	40757	55	55	64	70	61	59	55	64	55	58
9:45:15	573	40701	55	55	64	70	61	61	55	66	55	59
9:45:30	573	40803	57	57	66	70	63	59	57	64	57	59
9:45:45	573	40726	57	57	66	70	63	59	57	66	55	59
9:46:00	573	40715	57	57	66	70	63	61	57	66	55	60

**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:	60	mls
System Relief Water Collected:	0	mls
Calculated Water Loss:	60	mls
Average Leak Rate:	1.0	ml/min
Average Seal Circumference	24.2	inches
Allowable Leak Rate:	24.2	ml/min

<b>Was the Leakage Below the Allowable?</b>	<b>Yes</b>
---	------------

**Summary of Test Parameters During Burn and Cool Down Periods**

Amount of Time of Average Cal. Block > 1200 deg.:	16.0	minutes
Minimum Allowable Time at Temperature:	15	minutes
Average Cal. Block Temperature During Burn:	1075	deg. F
Maximum Average Cal. Block Temperature During Burn:	1279	deg. F
Minimum Average Cal. Block Temperature During Burn:	67	deg. F
Average Flame Temperature During Burn:	1594	deg. F
Maximum Average Flame Temperature During Burn:	1651	deg. F
Minimum Average Flame Temperature During Burn:	148	deg. F

*Notes*

<b>Were Test Conditions Within Compliance?</b>	<b>Yes</b>
--	------------

# Yarmouth Research and Technology, LLC

## Depressurization - Repressurization Test Information

Customer: Durlon

Date: 12/6/2019

Product Description: 6" 300 FG Spiral Wound Gasket

Project Number: 219501

System pressure was lowered to 0 and then repressurized.

### *Operational Test Raw Data*

Time	Pressure (psig)	Average Block Temp-F
9:49:45	566	59
9:50:00	567	59
9:50:15	566	59
9:50:30	566	59
9:50:45	567	59
9:51:00	567	61
9:51:15	567	61
9:51:30	567	61
9:51:45	568	61
9:52:00	568	61
9:52:15	568	61
9:52:30	567	61
9:52:45	568	61
9:53:00	567	61
9:53:15	568	61
9:53:30	567	61
9:53:45	568	61
9:54:00	568	63
9:54:15	568	61
9:54:30	568	63
9:54:45	568	63

*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:	24.2	ml/min

Was the Leakage Below the Allowable?	Yes
--------------------------------------	-----