DEATSCH WERKS

Injector Offset

manifold vaccuum (kPa)	0	5	10	15	20
injector differential pressure (psi)	58.0	58.7	59.5	60.2	60.9
4.5	3.506	3.570	3.634	3.698	3.762
5.0	3.274	3.332	3.390	3.449	3.507
5.5	3.049	3.103	3.156	3.209	3.262
6.0	2.834	2.882	2.930	2.978	3.026
6.5	2.627	2.670	2.714	2.757	2.800
7.0	2.429	2.468	2.506	2.545	2.584
7.5	2.239	2.274	2.308	2.343	2.378
8.0	2.058	2.088	2.119	2.150	2.181
8.5	1.885	1.912	1.939	1.967	1.994
9.0	1.721	1.745	1.769	1.792	1.816
9.5	1.565	1.586	1.607	1.628	1.649
10.0	1.418	1.436	1.454	1.473	1.491
10.5	1.279	1.295	1.311	1.327	1.342
11.0	1.150	1.163	1.177	1.190	1.204
11.5	1.028	1.040	1.051	1.063	1.075
12.0	0.915	0.925	0.935	0.946	0.956
12.5	0.811	0.820	0.828	0.837	0.846
13.0	0.715	0.723	0.731	0.738	0.746
13.5	0.628	0.635	0.642	0.649	0.656
14.0	0.549	0.556	0.562	0.569	0.576
14.5	0.479	0.486	0.492	0.499	0.505
15.0	0.417	0.424	0.431	0.437	0.444
15.5	0.364	0.372	0.379	0.386	0.393
16.0	0.320	0.328	0.336	0.343	0.351
16.5	0.284	0.293	0.302	0.310	0.319
17.0	0.257	0.267	0.277	0.287	0.297
17.5	0.246	0.256	0.266	0.276	0.286
18.0	0.235	0.245	0.255	0.265	0.275
18.5	0.223	0.233	0.244	0.254	0.264
19.0	0.212	0.222	0.232	0.243	0.253
19.5	0.201	0.211	0.221	0.231	0.242
20.0	0.190	0.200	0.210	0.220	0.230
20.5	0.179	0.189	0.199	0.209	0.219

	18.6	20.9	23.2	25.5	27.8
4	2.289	2.428	2.566	2.705	2.843
5	2.145	2.272	2.399	2.526	2.653
6	1.870	1.976	2.082	2.187	2.293
7	1.612	1.699	1.786	1.873	1.960
8	1.372	1.442	1.513	1.583	1.653

9	1.150	1.205	1.261	1.317	1.373
10	0.944	0.988	1.032	1.077	1.121
11	0.757	0.791	0.826	0.860	0.895
12	0.586	0.614	0.641	0.668	0.696
13	0.434	0.456	0.479	0.501	0.523
14	0.298	0.318	0.338	0.358	0.378
15	0.181	0.200	0.220	0.240	0.260
16	0.081	0.102	0.124	0.146	0.168
17	-0.002	0.024	0.051	0.077	0.103
18	-0.024	0.002	0.028	0.055	0.081
19	-0.046	-0.020	0.006	0.032	0.059
20	-0.069	-0.042	-0.016	0.010	0.037

	18.6	**21.5**	**24.4**	**27.3**	**30.2**
4	2.289	2.463	2.636	2.809	2.982
5	2.145	2.304	2.463	2.621	2.780
6	1.870	2.002	2.134	2.267	2.399
7	1.612	1.721	1.829	1.938	2.046
8	1.372	1.460	1.548	1.636	1.723
9	1.150	1.219	1.289	1.359	1.429
10	0.944	0.999	1.055	1.110	1.165
11	0.757	0.800	0.843	0.886	0.929
12	0.586	0.621	0.655	0.689	0.723
13	0.434	0.462	0.490	0.518	0.546
14	0.298	0.323	0.348	0.373	0.398
15	0.181	0.205	0.230	0.255	0.279
16	0.081	0.108	0.135	0.162	0.190
17	-0.002	0.031	0.064	0.097	0.129
18	-0.024	0.009	0.041	0.074	0.107
19	-0.046	-0.014	0.019	0.052	0.085
20	-0.069	-0.036	-0.003	0.030	0.063

vs. Pressure Delta vs. IGNV

25	30	35	40	45	50	55	60
61.6	**62.4**	**63.1**	**63.8**	**64.5**	**65.3**	**66.0**	**66.7**
3.826	3.890	3.954	4.019	4.083	4.147	4.211	4.275
3.566	3.624	3.683	3.741	3.800	3.858	3.916	3.975
3.315	3.368	3.421	3.475	3.528	3.581	3.634	3.687
3.074	3.123	3.171	3.219	3.267	3.315	3.363	3.411
2.844	2.887	2.931	2.974	3.017	3.061	3.104	3.147
2.623	2.662	2.701	2.740	2.779	2.818	2.856	2.895
2.412	2.447	2.482	2.517	2.551	2.586	2.621	2.655
2.212	2.243	2.273	2.304	2.335	2.366	2.397	2.428
2.021	2.048	2.076	2.103	2.130	2.157	2.184	2.212
1.840	1.864	1.888	1.912	1.936	1.960	1.984	2.008
1.670	1.690	1.711	1.732	1.753	1.774	1.795	1.816
1.509	1.527	1.545	1.563	1.582	1.600	1.618	1.636
1.358	1.374	1.390	1.405	1.421	1.437	1.452	1.468
1.217	1.231	1.244	1.258	1.272	1.285	1.299	1.312
1.087	1.098	1.110	1.122	1.133	1.145	1.157	1.168
0.966	0.976	0.986	0.996	1.006	1.016	1.026	1.036
0.855	0.864	0.873	0.881	0.890	0.899	0.908	0.917
0.754	0.762	0.770	0.778	0.785	0.793	0.801	0.809
0.663	0.670	0.677	0.685	0.692	0.699	0.706	0.713
0.582	0.589	0.596	0.602	0.609	0.616	0.622	0.629
0.512	0.518	0.525	0.531	0.538	0.544	0.551	0.557
0.451	0.457	0.464	0.471	0.477	0.484	0.491	0.497
0.400	0.407	0.414	0.421	0.428	0.435	0.442	0.449
0.359	0.367	0.374	0.382	0.390	0.398	0.406	0.413
0.328	0.337	0.346	0.354	0.363	0.372	0.381	0.389
0.307	0.317	0.327	0.337	0.347	0.357	0.368	0.378
0.296	0.306	0.316	0.326	0.336	0.346	0.356	0.367
0.285	0.295	0.305	0.315	0.325	0.335	0.345	0.355
0.274	0.284	0.294	0.304	0.314	0.324	0.334	0.344
0.263	0.273	0.283	0.293	0.303	0.313	0.323	0.333
0.252	0.262	0.272	0.282	0.292	0.302	0.312	0.322
0.240	0.251	0.261	0.271	0.281	0.291	0.301	0.311
0.229	0.239	0.250	0.260	0.270	0.280	0.290	0.300

30.2	32.5	34.8	37.1	39.5	41.8	44.1	46.4
2.982	3.009	3.037	3.064	3.091	3.119	3.146	3.206
2.780	2.807	2.833	2.860	2.886	2.912	2.939	2.995
2.399	2.423	2.448	2.473	2.497	2.522	2.546	2.594
2.046	2.069	2.092	2.115	2.137	2.160	2.183	2.224
1.723	1.744	1.765	1.786	1.807	1.828	1.849	1.884

1.429	1.448	1.467	1.487	1.506	1.525	1.544	1.573
1.165	1.182	1.199	1.216	1.234	1.251	1.268	1.293
0.929	0.945	0.960	0.975	0.991	1.006	1.021	1.043
0.723	0.736	0.750	0.763	0.777	0.790	0.804	0.822
0.546	0.557	0.569	0.581	0.592	0.604	0.616	0.632
0.398	0.408	0.417	0.427	0.437	0.447	0.457	0.472
0.279	0.287	0.295	0.303	0.311	0.319	0.327	0.342
0.190	0.196	0.202	0.208	0.214	0.220	0.226	0.242
0.129	0.134	0.138	0.142	0.146	0.151	0.155	0.172
0.107	0.111	0.116	0.120	0.124	0.128	0.133	0.150
0.085	0.089	0.093	0.098	0.102	0.106	0.111	0.128
0.063	0.067	0.071	0.076	0.080	0.084	0.088	0.105

33.1	**36**	**38.9**	**41.8**	**44.7**	**47.6**	**50.5**	**53.4**
3.015	3.048	3.080	3.113	3.146	3.218	3.290	3.362
2.812	2.844	2.875	2.907	2.939	3.006	3.073	3.140
2.428	2.458	2.487	2.517	2.546	2.604	2.661	2.719
2.074	2.101	2.128	2.156	2.183	2.232	2.281	2.330
1.748	1.773	1.799	1.824	1.849	1.890	1.932	1.974
1.452	1.475	1.498	1.521	1.544	1.579	1.615	1.650
1.185	1.206	1.227	1.247	1.268	1.298	1.328	1.358
0.948	0.966	0.984	1.003	1.021	1.047	1.073	1.098
0.739	0.755	0.771	0.788	0.804	0.826	0.848	0.871
0.560	0.574	0.588	0.602	0.616	0.636	0.655	0.675
0.410	0.421	0.433	0.445	0.457	0.475	0.494	0.512
0.289	0.298	0.308	0.317	0.327	0.345	0.363	0.381
0.197	0.204	0.212	0.219	0.226	0.245	0.264	0.283
0.135	0.140	0.145	0.150	0.155	0.175	0.196	0.216
0.112	0.117	0.123	0.128	0.133	0.153	0.173	0.194
0.090	0.095	0.100	0.105	0.111	0.131	0.151	0.172
0.068	0.073	0.078	0.083	0.088	0.109	0.129	0.149

65	70	75	80
67.4	**68.2**	**68.9**	**69.6**
4.339	4.403	4.467	4.531
4.033	4.092	4.150	4.209
3.740	3.793	3.846	3.900
3.459	3.507	3.555	3.604
3.191	3.234	3.277	3.321
2.934	2.973	3.012	3.051
2.690	2.725	2.760	2.794
2.458	2.489	2.520	2.551
2.239	2.266	2.293	2.321
2.032	2.056	2.080	2.104
1.837	1.858	1.879	1.900
1.654	1.672	1.691	1.709
1.484	1.500	1.515	1.531
1.326	1.339	1.353	1.367
1.180	1.192	1.203	1.215
1.047	1.057	1.067	1.077
0.925	0.934	0.943	0.952
0.817	0.824	0.832	0.840
0.720	0.727	0.734	0.741
0.636	0.642	0.649	0.656
0.564	0.570	0.577	0.583
0.504	0.510	0.517	0.524
0.456	0.463	0.470	0.478
0.421	0.429	0.437	0.445
0.398	0.407	0.416	0.425
0.388	0.398	0.408	0.418
0.377	0.387	0.397	0.407
0.365	0.376	0.386	0.396
0.354	0.364	0.375	0.385
0.343	0.353	0.363	0.373
0.332	0.342	0.352	0.362
0.321	0.331	0.341	0.351
0.310	0.320	0.330	0.340

48.7	51.1	53.4	55.7	58	60.3	62.7	65
3.266	3.326	3.386	3.446	3.506	3.677	3.847	4.019
3.050	3.106	3.162	3.218	3.274	3.430	3.585	3.741
2.642	2.690	2.738	2.786	2.834	2.963	3.090	3.219
2.265	2.306	2.347	2.388	2.429	2.533	2.636	2.740
1.918	1.953	1.988	2.023	2.058	2.140	2.222	2.304

1.603	1.632	1.662	1.691	1.721	1.785	1.848	1.912
1.318	1.343	1.368	1.393	1.418	1.467	1.515	1.563
1.064	1.085	1.107	1.128	1.150	1.186	1.222	1.258
0.841	0.860	0.878	0.897	0.915	0.942	0.969	0.996
0.649	0.665	0.682	0.699	0.715	0.736	0.757	0.778
0.488	0.503	0.518	0.534	0.549	0.567	0.585	0.602
0.357	0.372	0.387	0.402	0.417	0.435	0.453	0.471
0.258	0.273	0.289	0.304	0.320	0.341	0.361	0.382
0.189	0.206	0.223	0.240	0.257	0.284	0.310	0.337
0.167	0.184	0.201	0.217	0.235	0.261	0.288	0.315
0.144	0.161	0.178	0.195	0.212	0.239	0.266	0.293
0.122	0.139	0.156	0.173	0.190	0.217	0.244	0.271

56.3	**59.2**	**62.1**	**65**	**67.9**	**70.8**	**73.7**	**76.6**
3.434	3.506	3.711	3.916	4.121	4.326	4.531	4.583
3.207	3.274	3.461	3.648	3.835	4.022	4.209	4.258
2.776	2.834	2.988	3.142	3.296	3.450	3.604	3.647
2.380	2.429	2.553	2.678	2.802	2.926	3.051	3.089
2.016	2.058	2.156	2.255	2.354	2.452	2.551	2.584
1.685	1.721	1.797	1.874	1.950	2.027	2.104	2.133
1.388	1.418	1.476	1.534	1.592	1.651	1.709	1.734
1.124	1.150	1.193	1.236	1.280	1.323	1.367	1.389
0.893	0.915	0.948	0.980	1.012	1.045	1.077	1.096
0.695	0.715	0.740	0.765	0.790	0.815	0.840	0.857
0.531	0.549	0.570	0.592	0.613	0.634	0.656	0.671
0.399	0.417	0.439	0.460	0.481	0.502	0.524	0.538
0.301	0.320	0.345	0.370	0.395	0.420	0.445	0.458
0.236	0.257	0.289	0.321	0.353	0.386	0.418	0.431
0.214	0.235	0.267	0.299	0.331	0.363	0.396	0.408
0.192	0.212	0.245	0.277	0.309	0.341	0.373	0.386
0.170	0.190	0.222	0.255	0.287	0.319	0.351	0.364

67.3	69.6	71.9	74.3	76.6	78.9	81.2	83.5
4.190	4.360	4.531	4.575	4.618	4.662	4.706	4.749
3.897	4.053	4.209	4.250	4.291	4.332	4.373	4.414
3.347	3.475	3.604	3.640	3.676	3.712	3.749	3.785
2.844	2.947	3.051	3.083	3.115	3.146	3.178	3.210
2.387	2.469	2.551	2.579	2.607	2.634	2.662	2.690

1.976	2.040	2.104	2.128	2.152	2.176	2.201	2.225
1.612	1.660	1.709	1.730	1.751	1.772	1.793	1.814
1.294	1.330	1.367	1.385	1.403	1.422	1.440	1.458
1.023	1.050	1.077	1.093	1.109	1.125	1.141	1.157
0.798	0.819	0.840	0.854	0.868	0.882	0.896	0.910
0.620	0.638	0.656	0.668	0.681	0.693	0.706	0.719
0.488	0.506	0.524	0.535	0.547	0.558	0.570	0.581
0.403	0.424	0.445	0.455	0.466	0.477	0.488	0.499
0.364	0.391	0.418	0.429	0.439	0.450	0.460	0.471
0.342	0.369	0.396	0.406	0.417	0.428	0.438	0.449
0.320	0.347	0.373	0.384	0.395	0.405	0.416	0.427
0.298	0.324	0.351	0.362	0.372	0.383	0.394	0.404

79.5	**82.4**	**85.3**	**88.2**	**91.1**	**94**	**96.9**	**99.8**
4.636	4.688	4.741	4.793	4.893	4.993	5.094	5.194
4.307	4.357	4.406	4.455	4.548	4.640	4.733	4.825
3.691	3.734	3.778	3.821	3.899	3.977	4.055	4.133
3.127	3.166	3.204	3.242	3.307	3.372	3.438	3.503
2.618	2.651	2.685	2.718	2.772	2.826	2.880	2.933
2.162	2.191	2.220	2.249	2.293	2.337	2.381	2.425
1.759	1.785	1.810	1.835	1.871	1.907	1.942	1.978
1.411	1.433	1.455	1.477	1.505	1.534	1.563	1.592
1.115	1.135	1.154	1.173	1.197	1.220	1.243	1.267
0.874	0.891	0.908	0.925	0.944	0.964	0.983	1.003
0.686	0.701	0.716	0.731	0.748	0.766	0.783	0.800
0.551	0.565	0.579	0.593	0.609	0.626	0.642	0.659
0.471	0.484	0.497	0.510	0.527	0.544	0.561	0.578
0.443	0.456	0.469	0.482	0.501	0.520	0.540	0.559
0.421	0.434	0.447	0.459	0.479	0.498	0.517	0.537
0.399	0.412	0.424	0.437	0.456	0.476	0.495	0.515
0.377	0.389	0.402	0.415	0.434	0.454	0.473	0.492

85.9	88.2	90.5	92.8
4.793	4.859	4.925	4.993
4.455	4.516	4.577	4.640
3.821	3.873	3.924	3.977
3.242	3.285	3.328	3.372
2.718	2.754	2.789	2.826

2.249	2.278	2.307	2.337
1.835	1.859	1.882	1.907
1.477	1.496	1.515	1.534
1.173	1.189	1.204	1.220
0.925	0.938	0.950	0.964
0.731	0.743	0.754	0.766
0.593	0.604	0.615	0.626
0.510	0.521	0.532	0.544
0.482	0.494	0.507	0.520
0.459	0.472	0.485	0.498
0.437	0.450	0.463	0.476
0.415	0.428	0.440	0.454

102.7	**105.6**	**108.5**	**111.4**
5.294	5.419	5.544	5.669
4.917	5.033	5.148	5.264
4.211	4.309	4.406	4.504
3.568	3.649	3.731	3.812
2.987	3.055	3.122	3.189
2.469	2.524	2.579	2.634
2.014	2.058	2.103	2.147
1.621	1.657	1.693	1.729
1.290	1.320	1.349	1.378
1.023	1.047	1.072	1.096
0.818	0.839	0.861	0.883
0.675	0.696	0.716	0.737
0.595	0.617	0.638	0.660
0.578	0.602	0.627	0.651
0.556	0.580	0.604	0.629
0.534	0.558	0.582	0.606
0.512	0.536	0.560	0.584