

Time	Cooler Efficiency (Percent)	EGR Differential Pressure (inHg)	EGR Orifice (PSI)	EGR Temperature (°F)	EGR %	Engine Operating State	RPM	Engine Torque Mode	EBP PSI	Manifold Temperature (°F)	Boost PSI	Torque	VGT %	Turbocharger Speed (rpm)	Vehicle Speed (mph)
32:30.5	98	0.458	29.08	193	26	Maximum T	1204	Torque Lim	49.47	89.8	28.54	1850	48	93602	29
33:06.5	96	0.403	31.14	200.7	22	Maximum T	1581	Torque Lim	57.04	74.2	30.40	1786	37	100266	28
33:07.5	96	0.819	33.89	200.7	27	Maximum T	1584	Torque Lim	56.74	82.9	32.81	1780	34	102305	28
33:08.5	97	1.073	33.64	200.5	32	Maximum T	1589	Torque Lim	54.88	89.8	32.42	1776	31	101109	28
33:09.5	97	1.291	32.17	200.8	34	Maximum T	1586	Torque Lim	53.48	94.5	31.29	1778	30	100023	29
33:10.5	97	1.314	32.07	201.5	35	Maximum T	1592	Torque Lim	53.02	96.6	30.70	1773	29	99242	28
33:11.5	97	1.309	31.09	202.4	37	Maximum T	1574	Torque Lim	51.44	97.7	30.01	1782	28	98766	28
33:12.5	97	1.346	31.34	203	39	Maximum T	1579	Torque Lim	49.71	98.3	29.86	1783	27	98109	28
33:13.5	97	1.296	30.94	203.7	41	Maximum T	1582	Torque Lim	50.28	98.8	29.52	1781	26	97867	28
33:14.5	97	1.397	30.80	204.3	42	Maximum T	1578	Torque Lim	49.28	99.3	29.47	1773	25	97562	28
33:15.5	97	1.421	30.89	205.1	43	Maximum T	1578	Torque Lim	49.43	99.7	29.42	1781	25	97508	28
33:16.5	98	1.481	30.21	205.4	44	Maximum T	1582	Torque Lim	49.77	100	29.42	1782	25	97203	28
33:17.5	98	1.439	30.30	205.7	46	Maximum T	1583	Torque Lim	49.83	100.3	29.32	1780	24	97086	28
33:18.5	98	1.462	30.89	205.8	46	Maximum T	1588	Torque Lim	49.99	100.5	29.17	1783	25	97203	28
33:19.5	98	1.448	30.21	205.8	47	Maximum T	1589	Torque Lim	50.37	101	29.32	1775	24	97508	28
33:20.5	98	1.55	30.11	206	47	Maximum T	1587	Torque Lim	48.66	101.3	29.17	1778	23	97508	28
33:21.5	98	1.467	30.60	205.9	48	Maximum T	1590	Torque Lim	48.93	101.4	29.17	1774	23	97328	29
33:22.5	98	1.462	26.92	205.7	46	Maximum T	1607	Torque Lim	46.94	101.5	26.03	1759	24	94203	29
33:28.5	99	0.143	19.94	198.6	11	Maximum T	1164	Torque Lim	39.19	89	19.16	1850	38	82203	28
33:29.5	99	0.389	29.76	199.9	25	Maximum T	1566	Torque Lim	53.90	88.9	29.08	1794	35	98164	28
33:30.5	98	0.754	34.09	200.1	28	Maximum T	1584	Torque Lim	56.78	93.9	33.01	1789	32	102547	28
33:31.5	98	1.055	33.59	199.6	33	Maximum T	1581	Torque Lim	56.04	98	32.81	1778	29	101883	28
33:32.5	98	1.305	28.78	199.1	34	Maximum T	1592	Torque Lim	50.74	100.1	28.19	1779	31	96906	28
33:33.5	98	1.314	32.71	199.2	35	Maximum T	1588	Torque Lim	54.14	101.7	31.48	1777	29	100086	29
33:34.5	98	1.374	32.86	199.5	37	Maximum T	1600	Torque Lim	52.00	102.4	31.63	1769	28	100328	29
33:58.5	99	0.25	30.16	194.9	21	Maximum T	1233	Torque Lim	52.19	89.9	29.37	1850	45	95164	30
33:59.5	99	0.43	31.43	195.6	30	Maximum T	1238	Torque Lim	51.83	91.7	31.09	1850	46	96367	30
34:37.5	98	0.763	30.21	194.4	17	Maximum T	1908	Torque Lim	68.04	86.7	29.13	1473	46	105727	6
34:48.5	99	0.245	16.90	189.3	18	Maximum T	1796	Torque Lim	43.76	83.1	15.86	1578	36	83641	6
34:49.5	99	1.235	28.93	191.4	29	Maximum T	1932	Torque Lim	55.88	89	27.41	1438	33	99125	6
34:52.5	98	1.749	30.06	195.8	23	Maximum T	2005	Torque Lim	59.84	98.7	28.78	1376	32	103383	7
34:53.5	98	1.781	30.89	197.6	23	Maximum T	2008	Torque Lim	60.99	100.4	29.71	1370	31	104703	8
34:54.5	98	1.86	30.75	199.2	22	Maximum T	1875	Torque Lim	59.72	101.2	29.71	1497	29	103445	8
34:55.5	98	1.647	30.94	199.1	25	Maximum T	1886	Torque Lim	56.33	101	29.81	1487	29	102547	8
34:56.5	98	1.615	30.40	199	25	Maximum T	1891	Torque Lim	56.63	101.5	29.27	1482	28	101945	9
34:57.5	98	1.596	30.16	199.3	27	Maximum T	1910	Torque Lim	56.61	101.9	29.17	1464	27	101344	9
34:58.5	98	1.666	30.01	199.8	28	Maximum T	1910	Torque Lim	53.96	102.7	28.73	1464	26	100625	10
34:59.5	98	1.717	29.76	200.6	29	Maximum T	1924	Torque Lim	52.73	103.4	28.54	1451	25	100266	10
35:00.5	98	1.906	29.57	201.2	30	Maximum T	1932	Torque Lim	54.45	104	28.39	1449	24	99789	11
35:01.5	98	1.985	29.42	202.2	32	Maximum T	1936	Torque Lim	53.51	104.7	28.04	1440	23	99430	11
35:02.5	98	1.929	25.29	203.4	28	Maximum T	1915	Torque Lim	48.67	105.4	24.07	1451	25	95883	11
35:03.5	98	1.754	28.54	203.7	30	Maximum T	1954	Torque Lim	52.94	105.5	27.11	1424	25	98828	12
35:04.5	98	1.883	29.91	205.2	31	Maximum T	1976	Torque Lim	52.89	106.4	28.49	1398	25	100328	12
35:05.5	98	1.337	29.81	206.3	24	Maximum T	1419	Torque Lim	51.22	105.8	29.52	1850	28	97266	13
35:06.5	98	0.925	31.34	206.6	35	Maximum T	1470	Torque Lim	51.03	102.2	30.21	1850	31	98109	14
35:07.5	98	1.277	33.01	206.2	41	Maximum T	1570	Torque Lim	52.17	102.1	31.43	1791	32	99430	15
35:08.5	98	1.495	32.91	205.9	36	Maximum T	1646	Torque Lim	53.96	103.7	31.58	1719	31	100750	15
35:09.5	98	1.592	32.37	205.9	33	Maximum T	1724	Torque Lim	54.59	105.1	31.38	1640	29	101164	16
35:10.5	98	1.698	30.94	206.2	31	Maximum T	1830	Torque Lim	53.65	106.5	29.91	1542	25	100562	17
35:11.5	98	1.666	29.81	206.3	30	Maximum T	1894	Torque Lim	52.63	106.8	29.03	1491	22	100203	18
35:12.5	98	1.101	28.54	205.8	28	Maximum T	1474	Torque Lim	48.07	105.1	27.65	1850	25	95703	18
35:13.5	98	1.106	30.99	205.7	44	Maximum T	1559	Torque Lim	48.77	102	29.47	1803	28	97328	19
35:14.5	98	1.36	30.84	205.3	45	Maximum T	1631	Torque Lim	49.70	102.3	29.67	1734	26	97930	20
35:15.5	98	1.652	30.99	204.6	43	Maximum T	1701	Torque Lim	49.65	103.5	29.32	1668	25	98289	21
35:16.5	98	1.865	27.41	204.9	39	Maximum T	1780	Torque Lim	47.14	104.4	25.83	1590	23	95766	22
35:17.5	98	1.805	28.49	205.3	34	Maximum T	1858	Torque Lim	50.09	105.9	27.11	1514	22	97203	23
35:19.5	98	0.865	27.36	205.5	35	Maximum T	1401	Torque Lim	46.31	102.5	26.62	1850	28	93602	25
45:35.9	99	0.287	24.07	189.9	7	Maximum T	1698	Torque Lim	60.98	101.8	23.87	1664	42	100688	1
45:37.9	99	1.073	27.36	190.4	18	Maximum T	1763	Torque Lim	58.33	101.6	26.33	1614	43	97930	3
47:27.9	99	0.921	32.32	188.1	18	Maximum T	1917	Torque Lim	69.34	103.6	31.34	1459	43	108250	5
47:28.9	99	1.393	32.71	189.7	18	Maximum T	1987	Torque Lim	68.95	101.8	31.63	1392	38	110047	7
47:29.9	99	1.541	31.88	190.6	20	Maximum T	2033	Torque Lim	64.85	100.8	30.60	1345	35	108125	8
47:30.9	99	1.707	31.24	191.5	20	Maximum T	1893	Torque Lim	62.05	100.3	30.30	1484	34	104945	9
47:31.9	99	1.518	30.99	192.5	22	Maximum T	1917	Torque Lim	60.46	99.9	29.71	1460	32	104523	10
47:32.9	99	1.615	30.65	192.9	24	Maximum T	1942	Torque Lim	58.62	100.1	29.37	1436	31	103148	11
47:33.9	99	1.744	30.11	194.2	25	Maximum T	1967	Torque Lim	56.72	101	28.78	1412	29	102062	12
47:34.9	99	1.453	30.35	195.3	20	Maximum T	1486	Torque Lim	52.38	101.6	29.62	1850	31	98883	13
47:35.9	98	0.935	31.29	196	27	Maximum T	1489	Torque Lim	52.63	100.2	30.45	1850	34	98648	14
47:36.9	98	1.272	32.27	196.7	33	Maximum T	1627	Torque Lim	54.84	100.8	31.34	1744	35	99789	15
47:37.9	98	1.476	32.27	197.6	30	Maximum T	1713	Torque Lim	54.71	102.3	31.04	1657	32	100867	16
47:38.9	98	1.545	31.14	198.4	28	Maximum T	1807	Torque Lim	55.67	103.7	29.81	1564	29	101109	17
47:39.9	98	1.633	29.81	198.7	27	Maximum T	1864	Torque Lim	54.87	104.3	28.88	1508	27	100930	17
47:40.9	98	0.944	29.17	198.5	27	Maximum T	1493	Torque Lim	49.55	102.8	28.19	1850	30	96484	18
47:41.9	98	0.981	31.09	198.8	36	Maximum T	1557	Torque Lim	50.73	101.6	29.71	1795	31	97867	19
47:42.9	98	1.268	31.48	198.9	37	Maximum T	1632	Torque Lim	50.92	102.2	30.06	1724	31	98586	20
47:43.9	98	1.471	30.60	199.2	34	Maximum T	1698	Torque Lim	52.91	103.5	29.76	1665	29	99008	21
47:44.9	98	1.587	28.24	199.5	29	Maximum T	1786	Torque Lim	50.94	104.9	27.01	1581	29	97023	22
47:45.9	98	1.596	29.57	199.6	30	Maximum T	1838	Torque Lim	53.50	105.5	28.54	1527	26	99430	23

47:47.9	98	0.8	27.65	199.2	32	Maximum T	1386	Torque Lim	46.73	102.7	27.11	1850	32	94086	25
47:48.9	98	0.759	30.26	199.4	38	Maximum T	1435	Torque Lim	47.82	100.9	28.73	1850	35	96125	25
47:53.9	99	0.477	26.96	195.3	30	Maximum T	1214	Torque Lim	45.74	99	25.59	1850	48	90188	29
47:54.9	99	0.634	29.57	194.5	25	Maximum T	1487	Torque Lim	55.30	99.4	28.88	1850	46	96367	30
47:55.9	99	1.055	34.92	194.8	22	Maximum T	1737	Torque Lim	62.03	102.5	33.89	1632	35	106688	31
47:56.9	99	1.296	33.20	194.7	27	Maximum T	1776	Torque Lim	57.31	103.6	32.02	1598	29	103445	31
47:57.9	99	1.43	30.99	194.8	30	Maximum T	1802	Torque Lim	53.96	104.4	30.11	1569	24	100867	32
48:00.9	99	0.537	29.62	195.5	26	Maximum T	1391	Torque Lim	49.09	100.3	28.49	1850	38	95648	34
58:39.5	98	1.726	30.50	201.6	65	Maximum T	1620	Torque Lim	48.45	105.5	28.93	1755	20	97328	29
58:40.5	98	1.74	30.35	201.6	64	Maximum T	1619	Torque Lim	48.07	105.2	28.73	1744	18	97203	29
58:41.5	98	1.735	27.80	201.8	64	Maximum T	1632	Torque Lim	45.80	105.2	26.87	1745	18	95523	29
58:42.5	98	1.749	27.70	201.8	57	Maximum T	1629	Torque Lim	46.05	105.6	26.47	1733	22	94688	29
58:43.5	98	1.666	29.67	202.3	58	Maximum T	1632	Torque Lim	47.38	105.8	28.29	1731	20	96789	29
58:44.5	98	1.754	29.76	202.8	57	Maximum T	1640	Torque Lim	47.82	105.4	28.68	1724	18	97383	29
58:45.5	98	1.707	29.62	203.3	58	Maximum T	1643	Torque Lim	48.70	105.2	28.49	1717	17	97266	29
58:46.5	98	1.758	29.37	203.4	58	Maximum T	1649	Torque Lim	48.16	104.9	28.29	1716	16	96969	30
58:47.5	98	1.814	29.03	203.5	59	Maximum T	1652	Torque Lim	47.32	104.3	28.09	1713	15	96547	30
58:48.5	98	1.781	28.63	203.6	59	Maximum T	1656	Torque Lim	47.38	104.5	27.85	1701	14	96367	30
58:49.5	98	1.781	29.03	203.7	59	Maximum T	1670	Torque Lim	47.17	104.5	27.70	1699	13	95945	30
58:50.5	98	1.749	28.68	203.8	61	Maximum T	1677	Torque Lim	46.88	104.6	27.46	1690	12	96008	30
58:51.5	98	1.731	28.19	203.6	61	Maximum T	1679	Torque Lim	47.14	104.5	27.36	1685	12	95828	30
58:52.5	98	1.805	28.09	203.9	62	Maximum T	1688	Torque Lim	47.49	104.5	27.21	1676	11	95648	30
58:53.5	98	1.883	28.73	204	62	Maximum T	1702	Torque Lim	46.61	104.5	27.21	1661	11	95648	30
58:54.5	98	1.953	28.39	204.3	62	Maximum T	1699	Torque Lim	46.56	104.5	27.11	1662	11	95523	30
58:55.5	98	1.892	27.80	204.4	62	Maximum T	1700	Torque Lim	46.59	104.5	27.16	1668	10	95344	31
58:56.5	98	1.892	23.97	204.4	56	Maximum T	1704	Torque Lim	42.20	105.1	22.99	1659	15	91562	30
58:57.5	98	1.962	27.41	205	54	Maximum T	1714	Torque Lim	46.73	105.4	26.67	1650	15	95289	31
58:58.5	98	1.943	28.34	205.7	52	Maximum T	1716	Torque Lim	47.72	105.5	27.50	1645	13	96188	31
58:59.5	98	1.925	28.68	206	51	Maximum T	1725	Torque Lim	46.85	105.6	27.50	1639	11	96242	31
59:00.5	98	1.976	28.73	206.6	51	Maximum T	1728	Torque Lim	46.64	105.4	27.46	1639	11	96008	31
59:01.5	98	1.92	27.85	207	52	Maximum T	1725	Torque Lim	47.68	105.3	27.36	1639	10	96008	31
59:02.5	98	1.906	27.85	207.3	51	Maximum T	1738	Torque Lim	47.17	105	27.01	1627	9	95828	31
59:03.5	98	1.925	28.39	207.4	50	Maximum T	1738	Torque Lim	46.50	105	26.96	1639	9	95648	31
59:04.5	98	1.911	27.60	207.7	50	Maximum T	1753	Torque Lim	47.81	104.7	26.92	1626	8	95406	31
59:05.5	98	1.828	28.14	207.9	50	Maximum T	1744	Torque Lim	46.09	104.8	26.67	1623	8	95469	31
59:06.5	98	1.883	27.95	208	50	Maximum T	1747	Torque Lim	46.14	104.7	26.67	1620	8	95469	31
59:07.5	98	1.883	27.26	208.4	49	Maximum T	1760	Torque Lim	47.18	104.8	26.67	1619	8	95469	31
59:08.5	98	1.883	27.65	208.3	50	Maximum T	1756	Torque Lim	47.45	104.8	26.57	1609	7	95406	31
59:09.5	98	1.874	27.31	208.8	49	Maximum T	1758	Torque Lim	47.08	104.8	26.47	1613	7	95406	31
59:10.5	98	1.943	23.72	208.9	46	Maximum T	1754	Torque Lim	43.93	104.9	22.94	1613	10	91625	32
59:11.5	98	1.791	26.42	209	45	Maximum T	1758	Torque Lim	45.46	105.4	25.34	1612	12	94203	32
59:12.5	97	1.846	27.95	209.3	46	Maximum T	1765	Torque Lim	47.99	105.4	27.16	1603	12	95945	32
59:13.5	97	1.897	28.14	209.8	46	Maximum T	1756	Torque Lim	48.77	105.4	27.50	1610	11	96422	32
59:14.5	97	1.962	28.14	210	46	Maximum T	1772	Torque Lim	49.00	105.8	27.46	1603	11	96422	32
59:15.5	97	1.999	28.14	210.1	46	Maximum T	1769	Torque Lim	49.37	105.6	27.36	1600	11	96727	32
59:16.5	97	1.948	28.49	210.4	45	Maximum T	1775	Torque Lim	48.11	105.6	27.36	1587	10	96305	32
59:17.5	97	1.929	27.80	210.5	46	Maximum T	1794	Torque Lim	47.96	105.8	27.26	1577	10	96242	32
59:18.5	97	1.897	28.44	210.5	45	Maximum T	1780	Torque Lim	47.98	105.8	27.21	1590	10	96125	32
59:19.5	97	1.92	27.60	210.4	45	Maximum T	1787	Torque Lim	47.63	105.8	27.21	1581	9	96422	32
59:20.5	97	1.939	28.19	210.7	45	Maximum T	1789	Torque Lim	47.07	106	27.11	1575	9	96367	32
59:21.5	97	1.916	27.46	210.8	45	Maximum T	1781	Torque Lim	47.66	106	27.06	1581	9	96062	32
59:22.5	97	1.916	28.09	211	43	Maximum T	1798	Torque Lim	47.31	106	26.82	1573	8	96367	32
59:23.5	97	1.953	27.65	211.1	43	Maximum T	1811	Torque Lim	47.72	106	26.72	1563	8	96188	32
59:24.5	97	1.874	25.25	211.2	42	Maximum T	1808	Torque Lim	45.04	105.9	24.21	1564	9	94148	32
59:25.5	97	1.684	26.52	211	39	Maximum T	1818	Torque Lim	47.75	106.3	25.74	1556	12	95344	32
59:26.5	97	1.758	28.14	211	41	Maximum T	1820	Torque Lim	47.71	106.5	27.16	1554	12	96969	33
59:27.5	97	1.869	28.54	211.3	41	Maximum T	1810	Torque Lim	49.94	107	27.60	1565	12	97383	33
59:28.5	97	1.957	28.54	211.7	41	Maximum T	1814	Torque Lim	49.13	107	27.55	1544	12	97328	32
59:29.5	97	1.832	28.63	211.7	40	Maximum T	1818	Torque Lim	48.57	107	27.50	1553	12	97383	33
59:30.5	97	1.874	28.24	211.7	40	Maximum T	1814	Torque Lim	50.40	107.1	27.50	1558	11	97148	33
59:31.5	97	1.86	27.90	211.7	41	Maximum T	1810	Torque Lim	48.67	107	27.50	1552	11	97203	33
59:32.5	97	1.832	28.49	212	41	Maximum T	1818	Torque Lim	48.85	106.8	27.31	1547	11	97328	33
59:33.5	97	1.8	28.29	212	40	Maximum T	1822	Torque Lim	49.14	106.7	27.21	1546	10	97148	33
59:34.5	97	1.768	28.24	212	41	Maximum T	1828	Torque Lim	49.21	106.7	27.11	1549	10	97148	33
59:35.5	97	1.911	27.85	212	41	Maximum T	1828	Torque Lim	48.75	106.7	27.21	1543	10	96664	33
59:36.5	97	1.897	28.24	212.2	41	Maximum T	1831	Torque Lim	47.72	106.9	27.11	1538	10	96844	33
59:37.5	97	1.842	28.09	212.3	40	Maximum T	1832	Torque Lim	48.95	106.9	27.11	1539	9	96844	33
59:38.5	97	1.939	24.46	212.2	37	Maximum T	1849	Torque Lim	45.12	107.1	23.38	1523	13	93727	33
59:39.5	97	1.763	26.77	212	36	Maximum T	1848	Torque Lim	48.42	107.5	26.23	1517	14	96547	33
59:40.5	97	1.855	28.88	212.1	37	Maximum T	1844	Torque Lim	50.05	107.5	27.55	1500	14	98109	33
59:41.5	97	1.842	28.24	212.1	36	Maximum T	1854	Torque Lim	50.11	107.6	27.80	1527	14	98344	34
59:42.5	97	1.86	28.44	212.2	36	Maximum T	1865	Torque Lim	50.97	107.5	27.75	1508	12	98109	33
59:43.5	97	1.837	28.54	212.2	36	Maximum T	1872	Torque Lim	49.12	107.6	27.55	1499	11	98164	34
59:44.5	97	1.814	28.34	212.2	35	Maximum T	1871	Torque Lim	50.26	107.7	27.41	1495	11	98523	34
59:45.5	97	1.842	27.90	212.1	35	Maximum T	1897	Torque Lim	50.09	107.7	27.46	1477	10	98047	34
59:46.5	97	1.814	27.70	212	35	Maximum T	1885	Torque Lim	49.77	107.6	27.26	1488	10	97930	34
59:47.5	97	1.023	26.52	211.7	32	Maximum T	1410	Torque Lim	45.42	105	25.83	1850	18	93484	34
59:48.5	97	0.713	28.19	212	48	Maximum T	1401	Torque Lim	44.51	101.2	26.87	1850	25	94508	34