

Dispersion Report

Workspace: 72438-2FSRURegas-9R

Study: FSRU in rigassificazione-ME7

Equipment Item: 9Rb Compressore BOG LD

72438-2FSRURegas-9R\FSRU in rigassificazione-ME7\9Rb Compressore BOG LD

Material	GAS NATURALE	
East	0	m
North	0	m

Scenario (Leak) : 25mm

72438-2FSRURegas-9R\FSRU in rigassificazione-ME7\9Rb Compressore BOG LD\25mm

Material to track	GAS NATURALE
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Weather: Category 2/F

Wind speed [m/s]	2
Pasquill stability	F stable - night with moderate clouds and light/moderate wind
Atmospheric temperature [degC]	25
Relative humidity [fraction]	0,75
Solar radiation flux [kW/m2]	0,5
Mixing layer height [m]	100

Observer Release Data and Observer Mass Data

Observer number	Release type	Start time [s]	Start downwind distance [m]	Unit	Masses or mass rates		
					Release	Rainout	Final
1	Continuous	0	0	kg/s	0,453325	0	0,453325
2	Continuous	51,0391	0	kg/s	0,453325	0	0,453325

Time-varying Observer Dispersion Data (before along-wind-diffusion effects)

Dispersion data correspond to an averaging time of: 18,75 s

Observer number	Time [s]	Down wind distance [m]	C/Line height [m]	C/Line conc [ppm]	Effective width [m]	Effective depth [m]	C/Line vapour temperature [degC]	C/Line liquid fraction	Centroid velocity [m/s]	C/Line cloud density [kg/m ³]
1	0	0	12,5	999.99 9,37	0,0447 863	0,0224 185	20,43	0	300	0,7524 99
1	0,01	0,90215 7	12,50 01	252.47 5,88	0,2103 15	0,1052 63	23,6329	0	54,578 7	1,0678 8
1	0,02	1,35939 02	12,50 02	184.81 0,59	0,2890 3	0,1446 51	23,9927	0	39,536 1	1,0957 8
1	0,03	1,71712 03	12,50 03	152.66 8,71	0,3499 54	0,1751 34	24,1687	0	32,669 6	1,1089 9
1	0,04	2,02194 05	12,50 05	132.84 7,52	0,4016 07	0,2009 76	24,279	0	28,520 5	1,1171 2
1	0,05	2,29217 07	12,50 07	119.04 2,49	0,4472 78	0,2238 24	24,3566	0	25,668 3	1,1227 7
1	0,06	2,53804 09	12,50 09	108.68 6,61	0,4887 76	0,2445 84	24,4152	0	23,548 7	1,1270 1
1	0,07	2,76525 12	12,50 12	100.54 0,93	0,5271 07	0,2637 58	24,4616	0	21,893 2	1,1303 4
1	0,08	2,97747 14	12,50 14	93.915, 68	0,5629 11	0,2816 67	24,4995	0	20,554 3	1,1330 5
1	0,09	3,17735 17	12,50 17	88.387, 82	0,5966 51	0,2985 43	24,5312	0	19,442 4	1,1353 1
1	0,1	3,36698 2	12,50 2	83.680, 09	0,6286 82	0,3145 64	24,5584	0	18,499 2	1,1372 3
1	0,11	3,54796 23	12,50 23	79.603, 90	0,6592 79	0,3298 67	24,5819	0	17,685 2	1,1389
1	0,12	3,72145 26	12,50 26	76.028, 19	0,6886 4	0,3445 52	24,6026	0	16,973 2	1,1403 6
1	0,13	3,88814 29	12,50 29	72.860, 77	0,7168 89	0,3586 8	24,621	0	16,344 2	1,1416 5



1	0,14	4,04854	12,50	70.032,	0,7441	0,3722	24,6374	0	15,783	1,1428
			33	87	15	96			9	
1	0,15	4,20334	12,50	67.486,	0,7704	0,3854	24,6522	0	15,280	1,1438
			36	96	33	58			5	4
1	0,16	4,35317	12,50	65.177,	0,7959	0,3982	24,6657	0	14,824	1,1447
			4	54	51	18			6	9
1	0,17	4,49856	12,50	63.068,	0,8207	0,4106	24,678	0	14,409	1,1456
			43	92	55	22			1	4
1	0,18	4,64016	12,50	61.130,	0,8449	0,4227	24,6894	0	14,027	1,1464
			47	30	49	21			7	4
1	0,19	4,77829	12,50	59.339,	0,8685	0,4345	24,6998	0	13,676	1,1471
			51	80	84	39				7
1	0,2	4,91279	12,50	57.683,	0,8916	0,4460	24,7095	0	13,351	1,1478
			55	55	44	7				4
1	0,212	5,07025	12,50	55.846,	0,9186	0,4595	24,7203	0	12,991	1,1485
			6	16	89	93				9
1	0,226	5,25391	12,50	53.829,	0,9503	0,4754	24,7322	0	12,596	1,1494
	4		66	99	04	01			5	1
1	0,243	5,46672	12,50	51.647,	0,9870	0,4937	24,745	0	12,170	1,1503
	68		73	45	55	77			2	
1	0,264	5,713	12,50	49.307,	1,0297	0,5151	24,7588	0	11,713	1,1512
	416		83	44	3	14			9	5
1	0,289	5,99749	12,50	46.824,	1,0792	0,5398	24,7734	0	11,230	1,1522
	299		94	65	2	55			7	6
1	0,319	6,3235	12,51	44.231,	1,1362	0,5683	24,7887	0	10,726	1,1533
	159		08	01	3	61			8	2
1	0,354	6,69576	12,51	41.553,	1,2017	0,6011	24,8046	0	10,207	1,1544
	991		26	30	6	21			7	1
1	0,397	7,12056	12,51	38.815,	1,2770	0,6387	24,8208	0	9,6780	1,1555
	989		49	11	7	65			4	2
1	0,449	7,60393	12,51	36.046,	1,3634	0,6819	24,8372	0	9,1436	1,1566
	587		77	55	5	44			3	5
1	0,511	8,15133	12,52	33.281,	1,4622	0,7313	24,8537	0	8,6110	1,1577
	504		12	37	6	33			6	7
1	0,585	8,76837	12,52	30.551,	1,5750	0,7876	24,87	0	8,0864	1,1588
	805		57	27	1	88			3	8
1	0,674	9,46347	12,53	27.878,	1,7037	0,8520	24,8859	0	7,5739	1,1599
	966		13	03	6	37			1	7



1	0,781 959	10,242	12,53 85	25.289, 54	1,8504 4	0,9253 38	24,9014	0	7,0788	1,1610 2
1	0,910 351	11,1152	12,54 74	22.798, 76	2,0179 3	1,0090 4	24,9163	0	6,6035 1	1,1620 3
1	0,913 155	11,1337	12,54 76	22.750, 14	2,0215 1	1,0108 2	24,9166	0	6,5942 5	1,1620 5
1	1,064 42	12,0852	12,55 87	20.421, 34	2,2093 3	1,1046 8	24,9306	0	6,1509 9	1,163
1	1,249 31	13,166	12,57 29	18.169, 00	2,4283 3	1,2141	24,9441	0	5,7233 9	1,1639 1
1	1,471 17	14,3884	12,59 05	16.048, 19	2,6796 6	1,3396 7	24,9568	0	5,3218 8	1,1647 7
1	1,737 4	15,7599	12,61 23	14.066, 86	2,9685 1	1,4839 8	24,9688	0	4,9479 4	1,1655 7
1	2,056 88	17,2925	12,63 93	12.230, 60	3,3010 3	1,6500 9	24,9798	0	4,6026	1,1663 1
1	2,440 26	19,0011	12,67 25	10.543, 12	3,6843 4	1,8415 7	24,99	0	4,2865 6	1,167
1	2,900 31	20,9095	12,71 32	9.003,3 5	4,1277 2	2,0630 5	24,9993	0	3,9996 3	1,1676 1
1	3,452 37	23,0395	12,76 25	7.610,7 8	4,6418 6	2,3198 7	25,0078	0	3,7417 4	1,1681 7
1	4,114 84	25,4325	12,82 18	6.361,7 1	5,2406 7	2,6189 8	25,0153	0	3,5122 2	1,1686 7
1	4,909 81	28,1449	12,89 22	5.252,1 6	5,9412 4	2,9689 2	25,0221	0	3,3103 5	1,1691 1
1	5,675 35	30,6337	12,95 86	4.447,4 6	6,6025 3	3,2992 5	25,0269	0	3,1656 4	1,1694 3
2	51,03 91	0	12,5	999.99 9,37	0,0447 863	0,0224 185	20,43	0	300	0,7524 99
2	51,04 91	0,90215 7	12,50 01	252.47 5,88	0,2103 15	0,1052 63	23,6329	0	54,578 7	1,0678 8
2	51,05 91	1,35939	12,50 02	184.81 0,59	0,2890 3	0,1446 51	23,9927	0	39,536 1	1,0957 8
2	51,06 91	1,71712	12,50 03	152.66 8,71	0,3499 54	0,1751 34	24,1687	0	32,669 6	1,1089 9
2	51,07	2,02194	12,50	132.84	0,4016	0,2009	24,279	0	28,520	1,1171



	91		05	7,52	07	76			5	2
2	51,08 91	2,29217	12,50 07	119.04 2,49	0,4472 78	0,2238 24	24,3566	0	25,668 3	1,1227 7
2	51,09 91	2,53804	12,50 09	108.68 6,61	0,4887 76	0,2445 84	24,4152	0	23,548 7	1,1270 1
2	51,10 91	2,76525	12,50 12	100.54 0,93	0,5271 07	0,2637 58	24,4616	0	21,893 2	1,1303 4
2	51,11 91	2,97747	12,50 14	93.915, 68	0,5629 11	0,2816 67	24,4995	0	20,554 3	1,1330 5
2	51,12 91	3,17735	12,50 17	88.387, 82	0,5966 51	0,2985 43	24,5312	0	19,442 4	1,1353 1
2	51,13 91	3,36698	12,50 2	83.680, 09	0,6286 82	0,3145 64	24,5584	0	18,499 2	1,1372 3
2	51,14 91	3,54796	12,50 23	79.603, 90	0,6592 79	0,3298 67	24,5819	0	17,685 2	1,1389
2	51,15 91	3,72145	12,50 26	76.028, 19	0,6886 4	0,3445 52	24,6026	0	16,973 2	1,1403 6
2	51,16 91	3,88814	12,50 29	72.860, 77	0,7168 89	0,3586 8	24,621	0	16,344 2	1,1416 5
2	51,17 91	4,04854	12,50 33	70.032, 87	0,7441 15	0,3722 96	24,6374	0	15,783 9	1,1428
2	51,18 91	4,20334	12,50 36	67.486, 96	0,7704 33	0,3854 58	24,6522	0	15,280 5	1,1438 4
2	51,19 91	4,35317	12,50 4	65.177, 54	0,7959 51	0,3982 18	24,6657	0	14,824 6	1,1447 9
2	51,20 91	4,49856	12,50 43	63.068, 92	0,8207 55	0,4106 22	24,678	0	14,409 1	1,1456 4
2	51,21 91	4,64016	12,50 47	61.130, 30	0,8449 49	0,4227 21	24,6894	0	14,027 7	1,1464 4
2	51,22 91	4,77829	12,50 51	59.339, 80	0,8685 84	0,4345 39	24,6998	0	13,676	1,1471 7
2	51,23 91	4,91279	12,50 55	57.683, 55	0,8916 44	0,4460 7	24,7095	0	13,351	1,1478 4
2	51,25 11	5,07025	12,50 6	55.846, 16	0,9186 89	0,4595 93	24,7203	0	12,991	1,1485 9
2	51,26 55	5,25391	12,50 66	53.829, 99	0,9503 04	0,4754 01	24,7322	0	12,596 5	1,1494 1
2	51,28	5,46672	12,50	51.647,	0,9870	0,4937	24,745	0	12,170	1,1503



	28		73	45	55	77			2	
2	51,30 36	5,713	12,50 83	49.307, 44	1,0297 3	0,5151 14	24,7588	0	11,713 9	1,1512 5
2	51,32 84	5,99749	12,50 94	46.824, 65	1,0792 2	0,5398 55	24,7734	0	11,230 7	1,1522 6
2	51,35 83	6,3235	12,51 08	44.231, 01	1,1362 3	0,5683 61	24,7887	0	10,726 8	1,1533 2
2	51,39 41	6,69576	12,51 26	41.553, 30	1,2017 6	0,6011 21	24,8046	0	10,207 7	1,1544 1
2	51,43 71	7,12056	12,51 49	38.815, 11	1,2770 7	0,6387 65	24,8208	0	9,6780 4	1,1555 2
2	51,48 87	7,60393	12,51 77	36.046, 55	1,3634 5	0,6819 44	24,8372	0	9,1436 3	1,1566 5
2	51,55 06	8,15133	12,52 12	33.281, 37	1,4622 6	0,7313 33	24,8537	0	8,6110 6	1,1577 7
2	51,62 49	8,76837	12,52 57	30.551, 27	1,5750 1	0,7876 88	24,87	0	8,0864 3	1,1588 8
2	51,71 41	9,46347	12,53 13	27.878, 03	1,7037 6	0,8520 37	24,8859	0	7,5739 1	1,1599 7
2	51,82 11	10,242	12,53 85	25.289, 54	1,8504 4	0,9253 38	24,9014	0	7,0788 7	1,1610 2
2	51,94 95	11,1152	12,54 74	22.798, 76	2,0179 3	1,0090 4	24,9163	0	6,6035 1	1,1620 3
2	51,95 23	11,1337	12,54 76	22.750, 14	2,0215 1	1,0108 2	24,9166	0	6,5942 5	1,1620 5
2	52,10 36	12,0852	12,55 87	20.421, 34	2,2093 3	1,1046 8	24,9306	0	6,1509 9	1,163
2	52,28 84	13,166	12,57 29	18.169, 00	2,4283 3	1,2141	24,9441	0	5,7233 9	1,1639 1
2	52,51 03	14,3884	12,59 05	16.048, 19	2,6796 6	1,3396 7	24,9568	0	5,3218 8	1,1647 7
2	52,77 65	15,7599	12,61 23	14.066, 86	2,9685 1	1,4839 8	24,9688	0	4,9479 4	1,1655 7
2	53,09 6	17,2925	12,63 93	12.230, 60	3,3010 3	1,6500 9	24,9798	0	4,6026 6	1,1663 1
2	53,47 94	19,0011	12,67 25	10.543, 12	3,6843 4	1,8415 7	24,99	0	4,2865 6	1,167
2	53,93	20,9095	12,71	9.003,3	4,1277	2,0630	24,9993	0	3,9996	1,1676



	94		32	5	2	5			3	1
2	54,49 15	23,0395	12,76 25	7.610,7 8	4,6418 6	2,3198 7	25,0078	0	3,7417 4	1,1681 7
2	55,15 4	25,4325	12,82 18	6.361,7 1	5,2406 7	2,6189 8	25,0153	0	3,5122 2	1,1686 7
2	55,94 89	28,1449	12,89 22	5.252,1 6	5,9412 4	2,9689 2	25,0221	0	3,3103 5	1,1691 1
2	56,71 45	30,6337	12,95 86	4.447,4 6	6,6025 3	3,2992 5	25,0269	0	3,1656 4	1,1694 3

Weather: Category 5/D

Wind speed [m/s]	5
Pasquill stability	D neutral - little sun and high wind or overcast/windy night
Atmospheric temperature [degC]	25
Relative humidity [fraction]	0,75
Solar radiation flux [kW/m2]	0,5
Mixing layer height [m]	800

Observer Release Data and Observer Mass Data

Observer number	Release type	Start time [s]	Start downwind distance [m]	Unit	Masses or mass rates		
					Release	Rainout	Final
1	Continuous	0	0	kg/s	0,453325	0	0,453325
2	Continuous	51,0391	0	kg/s	0,453325	0	0,453325

Time-varying Observer Dispersion Data (before along-wind-diffusion effects)

Dispersion data correspond to an averaging time of: 18,75 s

Observer number	Time [s]	Down wind distance [m]	C/Line height [m]	C/Line conc [ppm]	Effective width [m]	Effective depth [m]	C/Line vapour temperature [degC]	C/Line liquid fraction	Centroid velocity [m/s]	C/Line cloud density [kg/m3]
1	0	0	12,5	999.99	0,0448	0,0224	20,43	0	300	0,7524
				9,37	117	058				
1	0,01	0,91727	12,50	248.42	0,2090	0,1045	23,5311	0	56,175	1,0700
		1	01	4,35	57	29			8	8
1	0,02	1,39036	12,50	179.70	0,2875	0,1437	23,8835	0	41,111	1,0984
		02	02	5,60	18	59			9	8
1	0,03	1,76372	12,50	146.99	0,3485	0,1742	24,0564	0	34,224	1,1119

			03	3,03	41	71			9	5
1	0,04	2,08401	12,50 05	126.78 8,24	0,4005 36	0,2002 68	24,1649	0	30,058 3	1,1202 6
1	0,05	2,36955	12,50 07	112.69 9,78	0,4467 34	0,2233 67	24,2414	0	27,191 4	1,1260 4
1	0,06	2,63056	12,50 09	102.12 5,11	0,4888 98	0,2444 49	24,2992	0	25,059 9	1,1303 8
1	0,07	2,87284	12,50 11	93.802, 14	0,5280 19	0,2640 09	24,3449	0	23,394 3	1,1337 9
1	0,08	3,10004	12,50 14	87.029, 10	0,5647 25	0,2823 62	24,3824	0	22,046 8	1,1365 7
1	0,09	3,31483	12,50 16	81.376, 01	0,5994 62	0,2997 31	24,4137	0	20,927 4	1,1388 8
1	0,1	3,51927	12,50 19	76.561, 39	0,6325 73	0,3162 87	24,4405	0	19,977 8	1,1408 5
1	0,11	3,71499	12,50 21	72.393, 22	0,6643 22	0,3321 61	24,4638	0	19,158 6	1,1425 6
1	0,12	3,90318	12,50 24	68.737, 46	0,6949 01	0,3474 51	24,4842	0	18,442 1	1,1440 5
1	0,13	4,08459	12,50 27	65.498, 49	0,7244 43	0,3622 22	24,5024	0	17,809 1	1,1453 8
1	0,14	4,25967	12,50 3	62.606, 00	0,7530 33	0,3765 16	24,5186	0	17,245	1,1465 6
1	0,15	4,42909	12,50 33	60.002, 07	0,7807 76	0,3903 88	24,5333	0	16,738 3	1,1476 3
1	0,16	4,59346	12,50 37	57.640, 82	0,8077 71	0,4038 86	24,5466	0	16,279 7	1,1485 9
1	0,17	4,75334	12,50 4	55.485, 82	0,8341 01	0,4170 51	24,5587	0	15,861 9	1,1494 7
1	0,18	4,90931	12,50 43	53.506, 94	0,8598 5	0,4299 25	24,5699	0	15,478 8	1,1502 8
1	0,19	5,062	12,50 47	51.679, 21	0,8851	0,4425 5	24,5802	0	15,125 4	1,1510 3
1	0,2	5,21207	12,50 5	49.981, 69	0,9099 33	0,4549 66	24,5898	0	14,797 7	1,1517 2
1	0,212	5,38821	12,50 54	48.100, 88	0,9391 48	0,4695 74	24,6005	0	14,435 1	1,1524 9
1	0,226	5,59389	12,50	46.042,	0,9733	0,4866	24,6122	0	14,038	1,1533



	4		59	03	94	97			8	3
1	0,243 68	5,83404	12,50 66	43.810, 22	1,0135 1	0,5067 53	24,6249	0	13,609 9	1,1542 4
1	0,264 416	6,11226	12,50 73	41.426, 14	1,0602 6	0,5301 29	24,6384	0	13,152 5	1,1552 1
1	0,289 299	6,43522	12,50 83	38.903, 77	1,1147 8	0,5573 9	24,6528	0	12,669 4	1,1562 4
1	0,319 159	6,80766	12,50 95	36.274, 11	1,1781 2	0,5890 58	24,6678	0	12,166 9	1,1573 2
1	0,354 991	7,23689	12,51 09	33.564, 65	1,2516 5	0,6258 24	24,6833	0	11,650 1	1,1584 2
1	0,397 989	7,72906	12,51 27	30.812, 03	1,3368	0,6684 01	24,699	0	11,126 3	1,1595 5
1	0,449 587	8,29213	12,51 49	28.050, 52	1,4353 4	0,7176 68	24,7148	0	10,601 8	1,1606 7
1	0,511 504	8,93321	12,51 76	25.317, 49	1,5491 8	0,7745 91	24,7305	0	10,083 9	1,1617 9
1	0,582 522	9,63165	12,52 08	22.750, 14	1,6751 2	0,8375 61	24,7453	0	9,5984 7	1,1628 3
1	0,585 805	9,66312	12,52 1	22.643, 21	1,6808 4	0,8404 22	24,7459	0	9,5782 8	1,1628 8
1	0,674 966	10,4852	12,52 51	20.044, 50	1,8340 9	0,9170 46	24,7609	0	9,0879 8	1,1639 4
1	0,781 959	11,4194	12,53 01	17.557, 91	2,0122 3	1,0061 2	24,7752	0	8,6198 6	1,1649 5
1	0,910 351	12,494	12,53 62	15.222, 99	2,2182 8	1,1091 4	24,7886	0	8,1812 4	1,1659
1	1,064 42	13,7235	12,54 35	13.051, 40	2,4577	1,2288 5	24,8011	0	7,7741 9	1,1667 8
1	1,249 31	15,1294	12,55 23	11.050, 78	2,7376 8	1,3688 4	24,8127	0	7,4000 1	1,1676
1	1,471 17	16,7396	12,56 26	9.231,9 7	3,0664 5	1,5332 3	24,8231	0	7,0606 1	1,1683 4
1	1,581 22	17,5112	12,56 77	8.499,2 6	3,2272 7	1,6136 3	24,8273	0	6,9241 2	1,1686 3
2	51,03 91	0	12,5	999.99 9,37	0,0448 117	0,0224 058	20,43	0	300	0,7524 99



2	51,04 91	0,91727 1	12,50 01	248.42 4,35	0,2090 57	0,1045 29	23,5311	0	56,175 8	1,0700 8
2	51,05 91	1,39036	12,50 02	179.70 5,60	0,2875 18	0,1437 59	23,8835	0	41,111 9	1,0984 8
2	51,06 91	1,76372	12,50 03	146.99 3,03	0,3485 41	0,1742 71	24,0564	0	34,224 9	1,1119 5
2	51,07 91	2,08401	12,50 05	126.78 8,24	0,4005 36	0,2002 68	24,1649	0	30,058 3	1,1202 6
2	51,08 91	2,36955	12,50 07	112.69 9,78	0,4467 34	0,2233 67	24,2414	0	27,191 4	1,1260 4
2	51,09 91	2,63056	12,50 09	102.12 5,11	0,4888 98	0,2444 49	24,2992	0	25,059 9	1,1303 8
2	51,10 91	2,87284	12,50 11	93.802, 14	0,5280 19	0,2640 09	24,3449	0	23,394 3	1,1337 9
2	51,11 91	3,10004	12,50 14	87.029, 10	0,5647 25	0,2823 62	24,3824	0	22,046 8	1,1365 7
2	51,12 91	3,31483	12,50 16	81.376, 01	0,5994 62	0,2997 31	24,4137	0	20,927 4	1,1388 8
2	51,13 91	3,51927	12,50 19	76.561, 39	0,6325 73	0,3162 87	24,4405	0	19,977 8	1,1408 5
2	51,14 91	3,71499	12,50 21	72.393, 22	0,6643 22	0,3321 61	24,4638	0	19,158 6	1,1425 6
2	51,15 91	3,90318	12,50 24	68.737, 46	0,6949 01	0,3474 51	24,4842	0	18,442 1	1,1440 5
2	51,16 91	4,08459	12,50 27	65.498, 49	0,7244 43	0,3622 22	24,5024	0	17,809 1	1,1453 8
2	51,17 91	4,25967	12,50 3	62.606, 00	0,7530 33	0,3765 16	24,5186	0	17,245	1,1465 6
2	51,18 91	4,42909	12,50 33	60.002, 07	0,7807 76	0,3903 88	24,5333	0	16,738 3	1,1476 3
2	51,19 91	4,59346	12,50 37	57.640, 82	0,8077 71	0,4038 86	24,5466	0	16,279 7	1,1485 9
2	51,20 91	4,75334	12,50 4	55.485, 82	0,8341 01	0,4170 51	24,5587	0	15,861 9	1,1494 7
2	51,21 91	4,90931	12,50 43	53.506, 94	0,8598 5	0,4299 25	24,5699	0	15,478 8	1,1502 8
2	51,22 91	5,062	12,50 47	51.679, 21	0,8851	0,4425 5	24,5802	0	15,125 4	1,1510 3



2	51,23 91	5,21207	12,50 5	49.981, 69	0,9099 33	0,4549 66	24,5898	0	14,797 7	1,1517 2
2	51,25 11	5,38821	12,50 54	48.100, 88	0,9391 48	0,4695 74	24,6005	0	14,435 1	1,1524 9
2	51,26 55	5,59389	12,50 59	46.042, 03	0,9733 94	0,4866 97	24,6122	0	14,038 8	1,1533 3
2	51,28 28	5,83404	12,50 66	43.810, 22	1,0135 1	0,5067 53	24,6249	0	13,609 9	1,1542 4
2	51,30 36	6,11226	12,50 73	41.426, 14	1,0602 6	0,5301 29	24,6384	0	13,152 5	1,1552 1
2	51,32 84	6,43522	12,50 83	38.903, 77	1,1147 8	0,5573 9	24,6528	0	12,669 4	1,1562 4
2	51,35 83	6,80766	12,50 95	36.274, 11	1,1781 2	0,5890 58	24,6678	0	12,166 9	1,1573 2
2	51,39 41	7,23689	12,51 09	33.564, 65	1,2516 5	0,6258 24	24,6833	0	11,650 1	1,1584 2
2	51,43 71	7,72906	12,51 27	30.812, 03	1,3368	0,6684 01	24,699	0	11,126 3	1,1595 5
2	51,48 87	8,29213	12,51 49	28.050, 52	1,4353 4	0,7176 68	24,7148	0	10,601 8	1,1606 7
2	51,55 06	8,93321	12,51 76	25.317, 49	1,5491 8	0,7745 91	24,7305	0	10,083 9	1,1617 9
2	51,62 17	9,63165	12,52 08	22.750, 14	1,6751 2	0,8375 61	24,7453	0	9,5984 7	1,1628 3
2	51,62 49	9,66312	12,52 1	22.643, 21	1,6808 4	0,8404 22	24,7459	0	9,5782 8	1,1628 8
2	51,71 41	10,4852	12,52 51	20.044, 50	1,8340 9	0,9170 46	24,7609	0	9,0879 8	1,1639 4
2	51,82 11	11,4194	12,53 01	17.557, 91	2,0122 3	1,0061 2	24,7752	0	8,6198 6	1,1649 5
2	51,94 95	12,494	12,53 62	15.222, 99	2,2182 8	1,1091 4	24,7886	0	8,1812 4	1,1659
2	52,10 36	13,7235	12,54 35	13.051, 40	2,4577	1,2288 5	24,8011	0	7,7741 9	1,1667 8
2	52,28 84	15,1294	12,55 23	11.050, 78	2,7376 8	1,3688 4	24,8127	0	7,4000 1	1,1676
2	52,51 03	16,7396	12,56 26	9.231,9 7	3,0664 5	1,5332 3	24,8231	0	7,0606 1	1,1683 4



2	52,62	17,5112	12,56	8.499,2	3,2272	1,6136	24,8273	0	6,9241	1,1686
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