id	machine id	machine name	timestamp	shift	spindle rpm	spindle pulse	shaft rpm	shaft pulse tp	m set length	actual length
	MC001	Lathe A	2025-07-09 20:21:15	В	1499.15		1534.28	27 3.96		112.59
	MC001	Lathe A	2025-07-09 20:21:16	В	1476.82		1411.33	46 3.48		117.32
3	MC001	Lathe A	2025-07-09 20:21:16	В	1524.91		1458.35	22 5.35		118.66
	MC001	Lathe A	2025-07-09 20:21:17	В	1562.07		1393.69	21 5.93		103.29
	MC001	Lathe A	2025-07-09 20:21:18	В	1539.47		1401.82	42 5.92		117.17
	MC001	Lathe A	2025-07-09 20:21:18	В	1400.24		1535.2	14 5.54		111.32
	MC001	Lathe A	2025-07-09 20:21:20	В	1495.71		1350.92	23 6.1	120	105.37
	MC001	Lathe A	2025-07-09 20:21:20	В	1445.91		1544.21	35 3.3	120	111.87
	MC001 MC001	Lathe A Lathe A	2025-07-09 20:21:20 2025-07-09 20:21:22	B B	1556.53 1576.72		1371.27 1446.62	17 3.89 18 5.20		109.93 115.63
	MC001 MC001	Lathe A	2025-07-09 20:21:23	В	1576.72		1384.56	15 3.98		118.9
	MC001	Lathe A	2025-07-09 20:21:23	В	1474.11		1430.08	18 5.18		115.26
	MC001	Lathe A	2025-07-09 20:21:25	В	1493.13		1441.51	31 3.07		115.26
	MC001	Lathe A	2025-07-09 20:21:25	В	1431.89		1356.52	36 5.43		111.93
	MC001	Lathe A	2025-07-09 20:21:26	В	1507.81		1431.16	29 6.38		118.39
	MC001	Lathe A	2025-07-09 20:21:28	В	1495.37		1394.77	46 3.22		113.35
17	MC001	Lathe A	2025-07-09 20:21:28	В	1582.54	27	1476.89	10 4.16	5 120	113.93
18	MC001	Lathe A	2025-07-09 20:21:29	В	1435.65		1364.65	50 4.06		109.67
	MC001	Lathe A	2025-07-09 20:21:31	В	1594.34		1396.76	48 5.59		102.71
	MC001	Lathe A	2025-07-09 20:21:32	В	1556.39		1507.51	19 3.85		118.27
	MC001	Lathe A	2025-07-09 20:21:32	В	1441.85		1532.1	49 3.15		100.49
	MC001	Lathe A	2025-07-09 20:21:34	В	1522.13		1505.87	16 5.58		103.56
	MC001	Lathe A	2025-07-09 20:21:35	В	1501.2		1436.73	28 5.1	120	104.11
	MC001	Lathe A	2025-07-09 20:21:35	В	1550.12		1385.03	27 3.24		104.28
	MC001 MC001	Lathe A	2025-07-09 20:21:37	B B	1486.65 1480.36		1543.38 1541.74	38 3.08 20 5.98		111.41
	MC001 MC001	Lathe A Lathe A	2025-07-09 20:21:38 2025-07-09 20:21:39	В	1416.9		1533.66	30 3.14		105.4 102.51
	MC001 MC001	Lathe A	2025-07-09 20:21:40	В	1569.7		1379.59	24 5.36		119.33
	MC001	Lathe A	2025-07-09 20:21:41	В	1531.29		1427.65	42 5.38		117.81
	MC001	Lathe A	2025-07-09 20:21:42	В	1469.03		1531.05	35 5.8	120	103.55
	MC001	Lathe A	2025-07-09 20:21:43	В	1538.61		1409.6	44 5.23		107.35
	MC001	Lathe A	2025-07-09 20:21:44	В	1452.62		1513.74	35 5.36		115.61
	MC001	Lathe A	2025-07-09 20:21:45	В	1425.08		1494.12	43 5.43		106.53
34	MC001	Lathe A	2025-07-09 20:21:47	В	1434.32	26	1350.76	13 5.03	. 120	100.67
35	MC001	Lathe A	2025-07-09 20:21:47	В	1425.91	31	1536.97	45 4.77	120	112.39
	MC001	Lathe A	2025-07-09 20:21:48	В	1487.01		1535.14	23 5.48		111.44
	MC001	Lathe A	2025-07-09 20:21:50	В	1530.12		1410.73	22 5.74		117.65
	MC001	Lathe A	2025-07-09 20:21:51	В	1524.57		1459.97	27 5.48		114.7
	MC001	Lathe A	2025-07-09 20:21:51	В	1490.95		1440	21 5.74		112.34
	MC001	Lathe A	2025-07-09 20:21:53	В	1567.91		1507.77	23 3.84		116.92
	MC001 MC001	Lathe A	2025-07-09 20:21:54	B B	1518.21 1594.01		1535.76 1456.28	45 5.06 18 6.28		113.77
	MC001 MC001	Lathe A Lathe A	2025-07-09 20:21:55 2025-07-09 20:21:56	В	1557.24		1475.58	45 5.36		104.98 119
	MC001	Lathe A	2025-07-09 20:21:57	В	1586.05		1497.14	33 5.49		115.32
	MC001	Lathe A	2025-07-09 20:21:58	В	1450.69		1433.61	22 4.29		108.28
	MC001	Lathe A	2025-07-09 20:22:00	В	1584.05		1539.96	31 6.5	120	100.51
	MC001	Lathe A	2025-07-09 20:22:00	В	1439.48		1369.62	15 4.8	120	111.13
	MC001	Lathe A	2025-07-09 20:22:01	В	1599.82		1371.05	41 4.9	120	107.17
49	MC001	Lathe A	2025-07-09 20:22:03	В	1586.33	29	1468.22	46 4.16	5 120	118.11
	MC001	Lathe A	2025-07-09 20:22:03	В	1420.1		1449.58	30 3.83		103.85
	MC001	Lathe A	2025-07-09 20:22:04	В	1449.44		1455.77	16 5.09		116.05
	MC001	Lathe A	2025-07-09 20:22:06	В	1576.33		1373.18	39 5.1	120	107.8
	MC001	Lathe A	2025-07-09 20:22:07	В	1582.22		1374.44	46 6.34		119.63
	MC001	Lathe A	2025-07-09 20:22:08	В	1417.99		1473.47	50 6.27		101.5
	MC001	Lathe A	2025-07-09 20:22:10	В	1497.04		1404.83	28 3.6	120	116.23
	MC001 MC001	Lathe A Lathe A	2025-07-09 20:22:10 2025-07-09 20:22:11	B B	1442.53 1557.68		1355.02 1417.48	30 4.29 43 4.29		113.86 116.57
	MC001 MC001	Lathe A	2025-07-09 20:22:11	В	1410.85		1464.52	31 5.54		115.66
	MC001 MC001	Lathe A	2025-07-09 20:22:13	В	1555.56		1436.5	37 3.78		116.08
	MC001	Lathe A	2025-07-09 20:22:14	В	1401.72		1486	47 6.06		110.76
	MC001	Lathe A	2025-07-09 20:22:16	В	1595.19		1376.97	30 5.74		107.84
	MC001	Lathe A	2025-07-09 20:22:16	В	1579.81		1427.82	38 4.23		117.7
63	MC001	Lathe A	2025-07-09 20:22:17	В	1572.96	38	1359.55	29 5.1	120	113.59
	MC001	Lathe A	2025-07-09 20:22:19	В	1556.05		1391.2	18 5.98		104.46
	MC001	Lathe A	2025-07-09 20:22:20	В	1494.35		1423.11	40 5.05		109.01
	MC001	Lathe A	2025-07-09 20:22:20	В	1554.59		1373.91	39 3.86		104.65
67	MC001	Lathe A	2025-07-09 20:22:22	В	1568.64		1478.5	34 4.8	120	103.74
	MCCCC				/	. 17	1474.38	37 4.22	2 120	110.42
68	MC001	Lathe A	2025-07-09 20:22:23	В	1421.13					
68 69	MC001 MC001 MC001	Lathe A Lathe A	2025-07-09 20:22:23 2025-07-09 20:22:23 2025-07-09 20:22:25	B B	1541.73 143 <u>1</u> .65	22	1517.56 1417.35	18 4.94 32 5.53	120	107.36 119.13

; el	machina id	machina nama	timestama	chift	cnindle rese	coindle pulse	chaft res	chaft pulsa tra	cot longth	actual langth
id	machine_id	machine_name	timestamp	shift	spindle_rpm	spindle_pulse	shaft_rpm	shaft_pulse tpn		actual_length
	MC001 MC001	Lathe A Lathe A	2025-07-09 20:22:26 2025-07-09 20:22:27	B B	1418.94 1589.97		1395.99 1373.98	11 5.51 40 3.08	120 120	106.48 104.46
	MC001	Lathe A	2025-07-09 20:22:28	В	1598.3		1454.61	36 3.84	120	102.83
	MC001	Lathe A	2025-07-09 20:22:29	В	1535.54		1421.54	11 4.7	120	103.59
	MC001	Lathe A	2025-07-09 20:22:30	В	1490.27		1525.19	19 4.09	120	109.43
	MC001	Lathe A	2025-07-09 20:22:32	В	1413.56		1486.39	33 5.11	120	115.13
	MC001	Lathe A	2025-07-09 20:22:32	В	1463.03		1509.66	43 6.29	120	110.15
	MC001	Lathe A	2025-07-09 20:22:33	В	1473.07		1395.85	17 5.19	120	100.78
	MC001	Lathe A	2025-07-09 20:22:35	В	1504.11		1449.68	46 3.57	120	102.05
	MC001	Lathe A	2025-07-09 20:22:36	В	1584.93		1351.87	29 4.41	120	112.37
	MC001	Lathe A	2025-07-09 20:22:36	В	1520.67		1531.45	29 4.01	120	110.29
	MC001	Lathe A	2025-07-09 20:22:38	В	1507.77		1546.56	22 6.11	120	108.88
	MC001 MC001	Lathe A Lathe A	2025-07-09 20:22:39 2025-07-09 20:22:39	B B	1528 1542.49		1434.6 1538.23	12 6.21 34 5.27	120 120	113.71 114.14
	MC001	Lathe A	2025-07-09 20:22:39	В	1576.78		1398.25	18 5.92	120	106.06
	MC001	Lathe A	2025-07-09 20:22:42	В	1508.04		1505.18	16 6.21	120	111.73
	MC001	Lathe A	2025-07-09 20:22:43	В	1570.03		1502.45	24 5.51	120	112.62
	MC001	Lathe A	2025-07-09 20:22:44	В	1558.1		1370.29	15 5.65	120	114.28
	MC001	Lathe A	2025-07-09 20:22:45	В	1554.72		1496.87	32 3.12	120	108.28
	MC001	Lathe A	2025-07-09 20:22:46	В	1507.99		1445.26	13 6.32	120	117.01
	MC001	Lathe A	2025-07-09 20:22:48	В	1433.95		1362.06	10 3.56	120	101.32
	MC001	Lathe A	2025-07-09 20:22:48	В	1477.28		1385.76	47 5.2	120	112.32
	MC001	Lathe A	2025-07-09 20:22:49	В	1450.46		1533.08	33 3.91	120	101.61
	MC001	Lathe A	2025-07-09 20:22:51	В	1471.73		1526.4	43 6.42	120	106.33
	MC001	Lathe A	2025-07-09 20:22:52	В	1426.7		1514.1	15 6.48	120	106.01
	MC001 MC001	Lathe A	2025-07-09 20:22:52 2025-07-09 20:22:54	B B	1491.45 1486.46		1390.94 1401.98	24 3.59 11 4.24	120 120	111.77 110.68
	MC001	Lathe A	2025-07-09 20:22:55	В	1482.51		1356.75	42 3.32	120	106.67
	MC001	Lathe A	2025-07-09 20:22:56	В	1568.1		1368.72	20 3.37	120	105.73
	MC001	Lathe A	2025-07-09 20:22:57	В	1419.34		1363.2	45 3.88	120	118.09
	MC001	Lathe A	2025-07-09 20:22:58	В	1509.46		1429.1	26 4.71	120	116.22
	MC001	Lathe A	2025-07-09 20:22:59	В	1523.19	50	1432.42	24 3.85	120	103.04
	MC001	Lathe A	2025-07-09 20:23:01	В	1557.88		1450.26	30 4.84	120	110.19
	MC001	Lathe A	2025-07-09 20:23:01	В	1499.11		1399.34	38 6.13	120	103.58
	MC001	Lathe A	2025-07-09 20:23:02	В	1526.57		1482.38	23 4.53	120	101.04
	MC001	Lathe A	2025-07-09 20:23:04	В	1544.92		1421.43	18 5.27	120	102.59
	MC001 MC001	Lathe A	2025-07-09 20:23:04 2025-07-09 20:23:05	B B	1590.25 1514.71		1519.13 1378.9	44 6.34 45 6.2	120 120	110.03 102.65
	MC001	Lathe A	2025-07-09 20:23:05	В	1424.6		1446.41	33 6.28	120	102.65
	MC001	Lathe A	2025-07-09 20:23:08	В	1454.76		1474.37	15 3.08	120	116.15
	MC001	Lathe A	2025-07-09 20:23:09	В	1594.99		1491.16	49 3.65	120	112.88
	MC001	Lathe A	2025-07-09 20:23:11	В	1516.81		1527.68	30 4.08	120	118.88
	MC001	Lathe A	2025-07-09 20:23:12	В	1475.14		1537.19	14 3.78	120	103.58
	MC001	Lathe A	2025-07-09 20:23:12	В	1495.97		1537.94	19 6.1	120	117.84
	MC001	Lathe A	2025-07-09 20:23:14	В	1511.47		1485.91	23 3.24	120	104.95
	MC001	Lathe A	2025-07-09 20:23:14	В	1472.75		1486.75	22 3.77	120	116.7
	MC001	Lathe A	2025-07-09 20:23:15	В	1594.59		1458.6	15 3.05	120	117.7
	MC001	Lathe A	2025-07-09 20:23:16	В	1584.69		1514.64	42 5.39	120	107.63
	MC001 MC001	Lathe A Lathe A	2025-07-09 20:23:16 2025-07-09 20:23:17	B B	1558.69 1451.18		1511.38 1484.71	46 5.09 47 3.85	120 120	110.18 105.45
	MC001 MC001	Lathe A	2025-07-09 20:23:17	В	1481.32		1544.38	37 3.17	120	110.67
	MC001	Lathe A	2025-07-09 20:23:19	В	1555.79		1535.77	39 6.05	120	117.66
	MC001	Lathe A	2025-07-09 20:23:19	В	1504.28		1517.34	10 3.38	120	109.27
	MC001	Lathe A	2025-07-09 20:23:21	В	1404.08		1447.38	13 5.22	120	108.89
125	MC001	Lathe A	2025-07-09 20:23:21	В	1467.22	22	1479.54	20 3.1	120	101.75
126	MC001	Lathe A	2025-07-09 20:23:21	В	1527.55	47	1428.14	22 6.12	120	119.72
	MC001	Lathe A	2025-07-09 20:23:23	В	1572.27		1432.73	35 4.81	120	114.77
	MC001	Lathe A	2025-07-09 20:23:23	В	1415.41		1386.58	25 3.53	120	110.88
	MC001	Lathe A	2025-07-09 20:23:24	В	1474.75		1429.76	24 4.44	120	103.68
	MC001	Lathe A	2025-07-09 20:23:25	В	1513.83		1439.25	30 5.28	120	106.74
	MC001	Lathe A Lathe A	2025-07-09 20:23:25	В	1474.24 1484.63		1395.99	46 3.3 23 4.22	120 120	115.31 107.94
	MC001 MC001	Lathe A	2025-07-09 20:23:26 2025-07-09 20:23:27	B B	1484.63		1424.78 1404.92	45 3.09	120	107.47
	MC001 MC001	Lathe A	2025-07-09 20:23:27	В	1451.77		1357.26	11 4.71	120	114.16
	MC001	Lathe A	2025-07-09 20:23:28	В	1454.26		1384.79	38 5.4	120	112.54
	MC001	Lathe A	2025-07-09 20:23:29	В	1449.93		1389.15	29 4.16	120	117.71
	MC001	Lathe A	2025-07-09 20:23:29	В	1452.41		1366.56	16 3.63	120	105.21
	MC001	Lathe A	2025-07-09 20:23:30	В	1492.65		1436.96	14 4.85	120	107.78
139	MC001	Lathe A	2025-07-09 20:23:31	В	1508.93	15	1382.76	16 6.04	120	109.55
140	MC001	Lathe A	2025-07-09 20:23:32	В	1417.33	har. 2/12	1394.6	14 3.37	120	115.46
					Page num	per: 2/13				Jul 10

id	machine id	machine name	timostama	shift	cnindle rem	cnindle nulce	shaft rpm	chaft pulce	tnm	set length	actual longth
	MC001	Lathe A	timestamp 2025-07-09 20:23:32	B	spindle_rpm 1591.12	spindle_pulse	1443.07	shaft_pulse	tpm 4.65	120	actual_length 116.32
	MC001 MC001	Lathe A	2025-07-09 20:23:33	В	1435.84		1445.07		4.85	120	107.03
	MC001	Lathe A	2025-07-09 20:23:34	В	1408.74		1509.33		4.48	120	110.72
	MC001	Lathe A	2025-07-09 20:23:34	В	1546.33		1540.19		4.26	120	108.65
	MC001	Lathe A	2025-07-09 20:23:36	В	1484.78		1498.98		6.42	120	113.88
	MC001	Lathe A	2025-07-09 20:23:36	В	1409.07		1445.88		6.18	120	110.17
	MC001	Lathe A	2025-07-09 20:23:36	В	1488.83		1502.94	12	3.58	120	115.25
	MC001	Lathe A	2025-07-09 20:23:38	В	1581.03		1430.52		4.44	120	118.21
	MC001	Lathe A	2025-07-09 20:23:38	В	1544.86		1480.74		3.35	120	102.83
	MC001	Lathe A	2025-07-09 20:23:39	В	1593.41		1479.41	40			117.34
	MC001	Lathe A	2025-07-09 20:23:40	В	1584.65		1453.92		3.01	120	101.15
	MC001	Lathe A	2025-07-09 20:23:40	В	1493.32		1440.63		5.99	120	110.73
	MC001	Lathe A	2025-07-09 20:23:41	В	1441.01		1369.85		5.74		112.45
	MC001 MC001	Lathe A Lathe A	2025-07-09 20:23:42 2025-07-09 20:23:42	B B	1535.21 1435.15		1486.37 1422.88		3.07 6.27	120 120	106.9 100.46
	MC001 MC001	Lathe A	2025-07-09 20:23:42	В	1477.78		1539.15		6.32	120	115.37
	MC001	Lathe A	2025-07-09 20:23:45	В	1596.37		1408.43		3.38	120	105.64
	MC001	Lathe A	2025-07-09 20:23:45	В	1470.68		1521.39		3.95	120	105.7
	MC001	Lathe A	2025-07-09 20:23:45	В	1541.85		1488.15		3.45	120	104.5
	MC001	Lathe A	2025-07-09 20:23:47	В	1555.51		1408.19		3.54	120	102.29
	MC001	Lathe A	2025-07-09 20:23:48	В	1559.51		1485.75		4.11	120	118.93
	MC001	Lathe A	2025-07-09 20:23:48	В	1451.62		1373.83	28			115.73
	MC001	Lathe A	2025-07-09 20:23:51	В	1472.04		1389.54		4.68		117.91
164	MC001	Lathe A	2025-07-09 20:23:51	В	1537.4	18	1451.22		5.67	120	115.55
165	MC001	Lathe A	2025-07-09 20:23:52	В	1435.34		1484.56		4.28		111.98
	MC001	Lathe A	2025-07-09 20:23:54	В	1498.14		1490.04		3.58		117.17
	MC001	Lathe A	2025-07-09 20:23:55	В	1500.6		1397.24		5.05	120	100.76
	MC001	Lathe A	2025-07-09 20:23:56	В	1560.69		1463.66		3.28		117.18
	MC001	Lathe A	2025-07-09 20:23:58	В	1573.61		1525.68		3.31	120	108.89
	MC001	Lathe A	2025-07-09 20:23:59	В	1510.97		1394.21		6.35		112.59
	MC001	Lathe A	2025-07-09 20:24:00	В	1434.13		1448.68		4.75		116.24
	MC001 MC001	Lathe A	2025-07-09 20:24:01	B B	1495.02 1445.41		1509.17 1414.88		4.75 5.18	120 120	114.98 105
	MC001 MC001	Lathe A Lathe A	2025-07-09 20:24:02 2025-07-09 20:24:03	В	1415.36		1492.27		3.66		116.48
	MC001	Lathe A	2025-07-09 20:24:05	В	1596.56		1449.77		5.83		112.15
	MC001	Lathe A	2025-07-09 20:24:06	В	1415.14		1543.93		4.54	120	109.26
		Lathe A	2025-07-09 20:24:06	В	1572.46		1381.75		4.08	120	109.11
	MC001	Lathe A	2025-07-09 20:24:08	В	1526.58		1534.71		4.59	120	103.39
	MC001	Lathe A	2025-07-09 20:24:09	В	1564.35		1526.85		4.9		115.59
	MC001	Lathe A	2025-07-09 20:24:10	В	1525.91		1503.57	23	4.89	120	107.35
181	MC001	Lathe A	2025-07-09 20:24:12	В	1584.76	17	1380.58	25	3.27	120	112.13
	MC001	Lathe A	2025-07-09 20:24:13	В	1517.28		1469.79		5.54	120	109.43
	MC001	Lathe A	2025-07-09 20:24:14	В	1448.27		1441.51		5.44		115.55
	MC001	Lathe A	2025-07-09 20:24:15	В	1525.92		1461.79		3.75		117.41
	MC001	Lathe A	2025-07-09 20:24:16	В	1491.42		1472.57	22			117.09
	MC001	Lathe A	2025-07-09 20:24:17	В	1534.42		1525.15		4.92	120	109.6
	MC001	Lathe A	2025-07-09 20:24:19	В	1488.74		1374.55		6.48		115.69
	MC001	Lathe A	2025-07-09 20:24:20	В	1513.18 1527.63		1403.93		5.24	120	118.4
	MC001 MC001	Lathe A Lathe A	2025-07-09 20:24:21 2025-07-09 20:24:23	B B	1573.38		1375.42 1514.1		3.72		119.02 115.55
	MC001	Lathe A	2025-07-09 20:24:23	В	1501.35		1455.94		5.48		113.95
	MC001	Lathe A	2025-07-09 20:24:25	В	1564.88		1395.38		4.47	120	108.35
	MC001	Lathe A	2025-07-09 20:24:27	В	1572.72		1379.92		5.15	120	106.26
	MC001	Lathe A	2025-07-09 20:24:27	В	1479.15		1500.84		3.14		111.44
	MC001	Lathe A	2025-07-09 20:24:28	В	1471.84		1509.58		5.33		111.76
196	MC001	Lathe A	2025-07-09 20:24:30	В	1466.72	30	1439.25	48	5.89	120	114.74
197	MC001	Lathe A	2025-07-09 20:24:31	В	1416.11		1350.23		6.16	120	102.15
	MC001	Lathe A	2025-07-09 20:24:32	В	1448.53		1462.1		5.06		110.23
	MC001	Lathe A	2025-07-09 20:24:33	В	1531.27		1359.8		4.46		117.22
	MC001	Lathe A	2025-07-09 20:24:35	В	1510.12		1543.22		5.24	120	109.97
	MC001	Lathe A	2025-07-09 20:24:35	В	1474.42		1464.69		6.16	120	118.94
	MC001	Lathe A	2025-07-09 20:24:37	В	1401.58		1431.6		5.26	120	116.88
	MC001	Lathe A	2025-07-09 20:24:38	В	1568.24 1576.27		1394.95		5.69	120	107.25
	MC001 MC001	Lathe A Lathe A	2025-07-09 20:24:39 2025-07-09 20:24:41	B B	1459.9		1501.59 1390.71		3.23 4.85	120 120	104.48 105.88
	MC001 MC001	Lathe A	2025-07-09 20:24:41	В	1459.9		1463.57		3.32		110.51
	MC001 MC001	Lathe A	2025-07-09 20:24:42	В	1559.22		1548.52		3.32		111.23
	MC001 MC001	Lathe A	2025-07-09 20:24:44	В	1476.07		1509.19	23			117.55
	MC001	Lathe A	2025-07-09 20:24:44	В	1458.58		1412.78		4.69	120	105.07
	MC001	Lathe A	2025-07-09 20:24:46	В	1492.42	46	1351.72		4.11		101.55
210	I I I COOT					ber: 3/13					Jul 1

; al	machina id	machina nama	timaatanan	ch:ft	coindle rese	coindle sules	chaft rans	chaft pulsa tara	s cot longth	actual langth
id	machine_id MC001	machine_name Lathe A	timestamp	shift	spindle_rpm 1421.2	spindle_pulse	shaft_rpm 1518.74	shaft_pulse tpn	n set_length	actual_length 116.42
	MC001 MC001	Lathe A	2025-07-09 20:24:48 2025-07-09 20:24:49	B B	1421.2		1399.13	30 5.95 48 4.44	120	113.25
	MC001	Lathe A	2025-07-09 20:24:50	В	1427.01		1548.33	30 3.83	120	108.65
	MC001	Lathe A	2025-07-09 20:24:52	В	1465.23		1511.01	14 5.33	120	102.34
	MC001	Lathe A	2025-07-09 20:24:53	В	1450.03		1512.68	48 5.7	120	115.44
	MC001	Lathe A	2025-07-09 20:24:54	В	1424.62		1483.71	20 6	120	111.52
	MC001	Lathe A	2025-07-09 20:24:55	В	1401.96		1399.25	45 6.01	120	103.72
	MC001	Lathe A	2025-07-09 20:24:56	В	1481.19		1429.63	35 5.31	120	104.78
	MC001	Lathe A	2025-07-09 20:24:57	В	1529.32		1402.05	18 3.82	120	110.44
	MC001 MC001	Lathe A Lathe A	2025-07-09 20:24:59 2025-07-09 20:25:00	B B	1569.96 1585.84		1459.75 1413.98	47 4.23 32 3.75	120 120	103.87 106.64
	MC001	Lathe A	2025-07-09 20:25:01	В	1582.92		1473.56	26 4.26	120	118.37
	MC001	Lathe A	2025-07-09 20:25:03	В	1514.04		1506.31	34 4.3	120	116.95
	MC001	Lathe A	2025-07-09 20:25:04	В	1554.38		1515.9	37 6.15	120	119.39
	MC001	Lathe A	2025-07-09 20:25:04	В	1574.87		1423.78	25 6.07	120	108.67
	MC001	Lathe A	2025-07-09 20:25:06	В	1445.69		1490.92	43 4.36	120	112.34
	MC001	Lathe A	2025-07-09 20:25:07	В	1494.13		1503.85	12 3.07	120	112.73
	MC001	Lathe A	2025-07-09 20:25:08	В	1592.95		1526.8	38 3.89	120	109.55
	MC001	Lathe A	2025-07-09 20:25:09	В	1436.9		1413.3	16 4.81	120	113.22
	MC001 MC001	Lathe A Lathe A	2025-07-09 20:25:10 2025-07-09 20:25:11	B B	1537.44 1468.77		1401.05 1481.32	29 6.27 26 5.26	120 120	115.55 108.22
	MC001 MC001	Lathe A	2025-07-09 20:25:13	В	1467.59		1501.63	20 3.20	120	115.39
	MC001	Lathe A	2025-07-09 20:25:14	В	1599.4		1543.79	11 4.31	120	104.59
	MC001	Lathe A	2025-07-09 20:25:15	В	1400.46		1506.43	34 3.68	120	117.67
235	MC001	Lathe A	2025-07-09 20:25:17	В	1592.3	40	1526.09	49 3.47	120	101.94
	MC001	Lathe A	2025-07-09 20:25:18	В	1547.31		1454.15	43 4.74	120	109.68
	MC001	Lathe A	2025-07-09 20:25:18	В	1584.12		1422.43	11 6.01	120	102.63
	MC001	Lathe A	2025-07-09 20:25:20	В	1418.41		1370.74	30 4.32	120	103.95
	MC001 MC001	Lathe A Lathe A	2025-07-09 20:25:21 2025-07-09 20:25:22	B	1423.71 1414.44		1419.66 1549.97	18 5.35 21 6.21	120 120	101.5 105.94
	MC001	Lathe A	2025-07-09 20:25:24	В	1517.23		1355.66	19 6.17	120	115.57
	MC001	Lathe A	2025-07-09 20:25:25	В	1430.53		1460.35	19 4.17	120	113.15
	MC001	Lathe A	2025-07-09 20:25:26	В	1548.45		1377.81	29 4.68	120	109.03
	MC001	Lathe A	2025-07-09 20:25:28	В	1564.85	39	1517.88	45 4.48	120	105.79
	MC001	Lathe A	2025-07-09 20:25:28	В	1468.93		1397.1	24 3.74	120	114.13
	MC001	Lathe A	2025-07-09 20:25:29	В	1489.65		1390.19	45 4.85	120	105.01
		Lathe A	2025-07-09 20:25:31	В	1553.51		1450.82	11 5.6	120	102.24
	MC001 MC001	Lathe A Lathe A	2025-07-09 20:25:32 2025-07-09 20:25:32	B	1581.41 1543.89		1467.23 1449.51	43 5.05 41 3.88	120 120	118.67 103.41
	MC001	Lathe A	2025-07-09 20:25:34	В	1583.04		1410.24	20 5.81	120	119.85
	MC001	Lathe A	2025-07-09 20:25:35	В	1586.98		1375.95	42 4.94	120	110.21
	MC001	Lathe A	2025-07-09 20:25:36	В	1595.58		1355.19	24 3.71	120	116
253	MC001	Lathe A	2025-07-09 20:25:38	В	1543.79		1525.74	44 6.12	120	114.23
	MC001	Lathe A	2025-07-09 20:25:39	В	1498.67		1542.98	32 5.11	120	119.47
	MC001	Lathe A	2025-07-09 20:25:40	В	1510.67		1388.13	38 4.34	120	109.53
	MC001	Lathe A	2025-07-09 20:25:41	В	1521.24		1431.06	44 5.51	120	101.27
	MC001 MC001	Lathe A Lathe A	2025-07-09 20:25:42	В	1550.16 1524.07		1491.61 1395.34	44 5.57 24 4.15	120 120	110.38 102.31
	MC001 MC001	Lathe A	2025-07-09 20:25:42 2025-07-09 20:25:44	B B	1555.43		1395.34	38 6.47	120	110.35
	MC001	Lathe A	2025-07-09 20:25:44	В	1587.55		1385.46	15 5.77	120	110.58
	MC001	Lathe A	2025-07-09 20:25:45	В	1599.46		1504.13	25 6.18	120	112.89
262	MC001	Lathe A	2025-07-09 20:25:46	В	1594.22	48	1413.96	12 6.2	120	114.81
	MC001	Lathe A	2025-07-09 20:25:47	В	1496.34		1440.55	44 4.17	120	102.12
	MC001	Lathe A	2025-07-09 20:25:48	В	1409.82		1462.71	45 6.11	120	110.39
	MC001	Lathe A	2025-07-09 20:25:50	В	1559.69		1416.06	20 3.07	120	114.79
	MC001 MC001	Lathe A Lathe A	2025-07-09 20:25:50 2025-07-09 20:25:51	B B	1457.38 1437.17		1510.38 1503.19	15 3.56 17 5.87	120 120	111.6 119.6
	MC001 MC001	Lathe A	2025-07-09 20:25:51	В	1405.52		1370.76	17 5.87	120	102.89
	MC001	Lathe A	2025-07-09 20:25:53	В	1443.82		1517.88	36 4.74	120	114.81
	MC001	Lathe A	2025-07-09 20:25:54	В	1539.47		1459.59	43 3.23	120	116.71
271	MC001	Lathe A	2025-07-09 20:25:55	В	1564.96	19	1466.88	38 3.98	120	104.57
	MC001	Lathe A	2025-07-09 20:25:56	В	1519.34		1474.49	37 6.17	120	106.5
	MC001	Lathe A	2025-07-09 20:25:56	В	1520.95		1467.49	42 3.48	120	106.85
	MC001	Lathe A	2025-07-09 20:25:58	В	1527		1493.98	46 6.06	120	106.05
	MC001 MC001	Lathe A Lathe A	2025-07-09 20:25:58 2025-07-09 20:25:59	В	1420.53 1516.09		1449.13 1440.53	11 4.22 46 5.7	120 120	102.18 119.77
	MC001 MC001	Lathe A	2025-07-09 20:25:59	B B	1484.7		1544.37	46 5.7 17 5.55	120	119.77
	MC001	Lathe A	2025-07-09 20:26:02	В	1545.99		1431.1	43 4.73	120	113.79
	MC001	Lathe A	2025-07-09 20:26:02	В	1465.26		1520.49	19 5.04	120	113.15
	MC001	Lathe A	2025-07-09 20:26:04		1569.28	47	1422.22	34 3.07		102 77
					Page num	per: 4/13				Jul 1(

d	machine_id	machine_name	timestamp	shift	spindle_rpm	spindle_pulse shaft_rp		tpm	set_length	actual_length
	MC001	Lathe A	2025-07-09 20:26:06	В	1593.66	22 1482.92		3.98	120	102.18
	MC001	Lathe A	2025-07-09 20:26:06	В	1494	39 1513.01		3.03	120	118
	MC001 MC001	Lathe A Lathe A	2025-07-09 20:26:08 2025-07-09 20:26:09	B B	1596.56 1469.27	36 1373.98 42 1501.16		3.9 4.46	120 120	100.66 101.46
	MC001 MC001	Lathe A	2025-07-09 20:26:09	В	1409.27	15 1352.93		3.95	120	107.34
	MC001	Lathe A	2025-07-09 20:26:11	В	1555.9	40 1414.55		3.08	120	110.13
	MC001	Lathe A	2025-07-09 20:26:12	В	1564.81	38 1406.93		3.09	120	103.74
	MC001	Lathe A	2025-07-09 20:26:12	В	1449.88	21 1367.61		3.4	120	100.83
	MC001	Lathe A	2025-07-09 20:26:14	В	1504.09	49 1531.62		5.48	120	109.55
	MC001	Lathe A	2025-07-09 20:26:14	В	1543.6	27 1537.4		3.39	120	101.19
		Lathe A	2025-07-09 20:26:15	В	1485.98	49 1485.9		3.3	120	115.29
		Lathe A	2025-07-09 20:26:17	В	1464.57	24 1403.23		6.32	120	106.8
		Lathe A	2025-07-09 20:26:18	В	1573.54	44 1468.21		4.74	120	114.47
	MC001	Lathe A	2025-07-09 20:26:19	В	1402.99	32 1406.92		3.69	120	101.55
	MC001 MC001	Lathe A Lathe A	2025-07-09 20:26:21 2025-07-09 20:26:21	B B	1594.45 1526.4	20 1387.62 24 1442.67		6.45	120 120	100.26 101.12
	MC001	Lathe A	2025-07-09 20:26:22	В	1442.41	30 1394.63		5.05	120	111.62
	MC001	Lathe A	2025-07-09 20:26:24	В	1432.67	39 1411.76		6.43	120	109.54
		Lathe A	2025-07-09 20:26:25	В	1502.45	47 1382.52		5.06	120	101.78
		Lathe A	2025-07-09 20:26:26	В	1568.93	24 1412.4		4.74	120	114.85
		Lathe A	2025-07-09 20:26:28	В	1555.87	18 1475.87		6.14	120	119.44
302	MC001	Lathe A	2025-07-09 20:26:29	В	1574.95	31 1511.25	48	4.28	120	109.65
303	MC001	Lathe A	2025-07-09 20:26:30	В	1581.9	41 1536.4	33	3.19	120	117.99
	MC001	Lathe A	2025-07-09 20:26:32	В	1469.85	26 1541.87		4.58	120	104.16
	MC001	Lathe A	2025-07-09 20:26:33	В	1498.35	44 1428.3		5.03	120	100.41
		Lathe A	2025-07-09 20:26:34	В	1492.38	16 1385.03		4.43	120	108.23
		Lathe A	2025-07-09 20:26:36	В	1462.88	25 1478.23		3.77	120	104.06
		Lathe A	2025-07-09 20:26:37	B B	1445.92 1577.25	21 1415.22 23 1522.5		6.17	120	100.26
	MC001 MC001	Lathe A	2025-07-09 20:26:38 2025-07-09 20:26:40	В	1516.63	23 1522.5		4.12 3.25	120 120	119.65 111.42
		Lathe A	2025-07-09 20:26:41	В	1550.45	33 1447.55		3.78	120	110.4
	MC001	Lathe A	2025-07-09 20:26:41	В	1454.17	36 1378.16		5.36	120	116.98
		Lathe A	2025-07-09 20:26:43	В	1411.76	48 1476.81		5.58	120	111.93
		Lathe A	2025-07-09 20:26:44	В	1580.98	36 1479.79		6.15	120	108.22
		Lathe A	2025-07-09 20:26:45	В	1502.05	48 1510.99		5.71	120	113.64
316	MC001	Lathe A	2025-07-09 20:26:47	В	1495.46	15 1459.69	12	4.63	120	102.18
317	MC001	Lathe A	2025-07-09 20:26:47	В	1511.93	37 1362.18	34	3.08	120	102.24
		Lathe A	2025-07-09 20:26:48	В	1407.24	17 1546.6		3.88	120	103.54
		Lathe A	2025-07-09 20:26:50	В	1581.14	45 1533.28		3.91	120	111.77
	MC001	Lathe A	2025-07-09 20:26:51	В	1513.7	47 1536.67		3.75	120	105.14
	MC001	Lathe A	2025-07-09 20:26:52	В	1599.48	38 1538.83		4.37	120	113.14
		Lathe A	2025-07-09 20:26:54	В	1560.23	25 1437.76		6.38	120	104.26
		Lathe A Lathe A	2025-07-09 20:26:55 2025-07-09 20:26:56	B B	1576.96 1553.17	28 1470.11 17 1466.09		6.05 4.94	120 120	116.94 101.27
		Lathe A	2025-07-09 20:26:57	В	1582.84	38 1453.07		3.71	120	110.79
	MC001	Lathe A	2025-07-09 20:26:58	В	1431.46	11 1477.65		4.2	120	112.45
	MC001	Lathe A	2025-07-09 20:26:59	В	1558.28	24 1499.8		5.39	120	107.56
	MC001	Lathe A	2025-07-09 20:27:00	В	1403.47	15 1367.79		4.46	120	107.9
	MC001	Lathe A	2025-07-09 20:27:01	В	1578.16	33 1395.87		5.88	120	118.11
330	MC001	Lathe A	2025-07-09 20:27:02	В	1411.96	37 1415.15	48	3.16	120	106.38
331	MC001	Lathe A	2025-07-09 20:27:04	В	1477.07	48 1479.14	16	3.96	120	110.61
		Lathe A	2025-07-09 20:27:05	В	1520.39	13 1541.88		5.94	120	113.04
		Lathe A	2025-07-09 20:27:05	В	1469.42	22 1532.56		4.17	120	119.2
	MC001	Lathe A	2025-07-09 20:27:07	B	1594.54	23 1409.15		5.28	120	102.03
		Lathe A	2025-07-09 20:27:08	В	1400.54	41 1492.37		5.56	120	105.21
	MC001	Lathe A	2025-07-09 20:27:09	В	1594.4	48 1420.93		4.9	120	106.34
	MC001 MC001	Lathe A	2025-07-09 20:27:11	В	1440.65 1547.25	49 1364.31 22 1505.08		3.1 5.08	120	104.14
		Lathe A Lathe A	2025-07-09 20:27:11 2025-07-09 20:27:12	B B	1547.25	22 1505.08		4.8	120 120	118.02 106.51
		Lathe A	2025-07-09 20:27:12	В	1411.26	38 1434.16		4.81	120	117.99
		Lathe A	2025-07-09 20:27:14	В	1573.7	37 1545.82		3.67	120	115.12
	MC001	Lathe A	2025-07-09 20:27:15	В	1538.05	14 1444.93		5.74	120	108.19
	MC001	Lathe A	2025-07-09 20:27:16	В	1585.34	44 1503.95		4.54	120	101.25
	MC001	Lathe A	2025-07-09 20:27:17	В	1438.19	19 1417.55		3.78	120	103.92
	MC001	Lathe A	2025-07-09 20:27:18	В	1429.75	48 1381.94		5.34	120	102.13
346	MC001	Lathe A	2025-07-09 20:27:20	В	1583.91	18 1437.94	43	5.8	120	106.75
		Lathe A	2025-07-09 20:27:20	В	1544.85	43 1390.45		4.21	120	114.2
348		Lathe A	2025-07-09 20:27:21	В	1540.86	49 1351.58		3.01	120	114.68
		I atha A	2025-07-09 20:27:22	В	1588.22	14 1400.5	12	3.13	120	115.38
	MC001 MC001	Lathe A	2025-07-09 20:27:22 2025-07-09 20:27:23	В	1408.87	36 1375.44			120	103.71

id	machine_id	machine_name	timestamp	shift	spindle_rpm	spindle_pulse	shaft_rpm	shaft_pulse	tpm	set_length	actual_length
	MC001	Lathe A	2025-07-09 20:27:23	В	1489.73		1452.6		3.61	120	115
	MC001	Lathe A	2025-07-09 20:27:25	В	1522.06		1471.63		3.44	120	102.2
	MC001	Lathe A	2025-07-09 20:27:25	В	1430.94		1500.33		6.47	120	115.04
	MC001 MC001	Lathe A Lathe A	2025-07-09 20:27:26 2025-07-09 20:27:27	B B	1413.04 1414.85		1464.59 1539.04		6.37 3.93	120 120	109.48 110.72
	MC001	Lathe A	2025-07-09 20:27:28	В	1408.25		1490.68		3.04	120	101.42
	MC001	Lathe A	2025-07-09 20:27:29	В	1518.12		1372.82		5.14	120	108.53
	MC001	Lathe A	2025-07-09 20:27:30	В	1481.35		1472.77		5.14	120	112.79
	MC001	Lathe A	2025-07-09 20:27:31	В	1536.16		1487.4		3.29	120	111.81
360	MC001	Lathe A	2025-07-09 20:27:31	В	1453.21	31	1446.64		4.97	120	115.4
	MC001	Lathe A	2025-07-09 20:27:33	В	1445.71		1402.77		6.49	120	103.35
	MC001	Lathe A	2025-07-09 20:27:33	В	1459.17		1364.84		5.85	120	103.97
	MC001	Lathe A	2025-07-09 20:27:34	В	1538.42		1382.36	33		120	103.44
	MC001	Lathe A	2025-07-09 20:27:35	В	1503.23		1413.23		6.05	120	117.03
	MC001	Lathe A	2025-07-09 20:27:36	В	1543.64		1396.78		3.48	120	100.11
	MC001 MC001	Lathe A Lathe A	2025-07-09 20:27:36 2025-07-09 20:27:38	B B	1532.17 1532.17		1455.14 1421.11		6.31 4.25	120 120	116.27 112.89
	MC001	Lathe A	2025-07-09 20:27:39	В	1478.19		1442.49		4.23	120	104.03
	MC001	Lathe A	2025-07-09 20:27:39	В	1488.41		1488.23		6.32	120	119.36
	MC001	Lathe A	2025-07-09 20:27:41	В	1508.4		1443.13		4.68	120	107.97
371	MC001	Lathe A	2025-07-09 20:27:42	В	1597.67		1475.16	27	6.14	120	114.49
372	MC001	Lathe A	2025-07-09 20:27:43	В	1523.36	23	1525.21	34	4.68	120	113.18
	MC001	Lathe A	2025-07-09 20:27:45	В	1455.04		1491.21		4.22	120	100.92
	MC001	Lathe A	2025-07-09 20:27:46	В	1440.73		1479.98		3.54	120	103.45
	MC001	Lathe A	2025-07-09 20:27:47	В	1437.83		1384.5		3.33	120	102.62
	MC001	Lathe A	2025-07-09 20:27:49	В	1440.8		1527.55		4.84	120	104.34
	MC001 MC001	Lathe A Lathe A	2025-07-09 20:27:49 2025-07-09 20:27:50	B B	1545.39 1467.23		1426.48 1449.48		3.28 6.28	120 120	116.66 109.01
	MC001	Lathe A	2025-07-09 20:27:52	В	1497.19		1382.03		3.4	120	118.14
	MC001	Lathe A	2025-07-09 20:27:53	В	1528.42		1444.93		3.81	120	112.6
	MC001	Lathe A	2025-07-09 20:27:54	В	1486.81		1489.51		3.46	120	100.3
	MC001	Lathe A	2025-07-09 20:27:55	В	1421.52		1376.04		5.66	120	113.46
	MC001	Lathe A	2025-07-09 20:27:56	В	1417.34	41	1385.52		5.75	120	109.83
	MC001	Lathe A	2025-07-09 20:27:56	В	1442.25		1474.79		4.35	120	104.26
	MC001	Lathe A	2025-07-09 20:27:58	В	1476.03		1410		4.46	120	112.73
	MC001	Lathe A	2025-07-09 20:27:58	В	1596.75		1481.98		5.46	120	113.7
		Lathe A	2025-07-09 20:27:59		1516.67		1412.19			120	113.52
	MC001 MC001	Lathe A Lathe A	2025-07-09 20:28:00 2025-07-09 20:28:00	B B	1493.4 1408.59		1493.28 1447.18		6.01 4.05	120 120	118.29 104.27
	MC001	Lathe A	2025-07-09 20:28:01	В	1424.53		1513.72		4.03	120	104.27
	MC001	Lathe A	2025-07-09 20:28:02	В	1438.78		1500.4		3.24	120	119.86
	MC001	Lathe A	2025-07-09 20:28:03	В	1481.96		1465.36		5.82	120	107.51
	MC001	Lathe A	2025-07-09 20:28:03	В	1439.38		1505.36		3.5	120	110.09
394	MC001	Lathe A	2025-07-09 20:28:05	В	1562.92	22	1527.18	34	6.39	120	113.79
	MC001	Lathe A	2025-07-09 20:28:05	В	1456.37		1398.93		3.43	120	106.64
	MC001	Lathe A	2025-07-09 20:28:05	В	1429.26		1375.98		5.98	120	119.25
	MC001	Lathe A	2025-07-09 20:28:07	В	1532.41		1359.87		6.39	120	105.7
	MC001	Lathe A	2025-07-09 20:28:07	В	1431.28		1384.45		4.21	120	116.32
	MC001 MC001	Lathe A Lathe A	2025-07-09 20:28:08 2025-07-09 20:28:09	B B	1432.6 1555.03		1453.57 1385.92		3.57 6.19	120 120	107.45 118.83
	MC001 MC001	Lathe A	2025-07-09 20:28:10	В	1490.95		1500.46		4.81	120	113.27
	MC001	Lathe A	2025-07-09 20:28:11	В	1475.38		1533.9		3.79	120	104.24
	MC001	Lathe A	2025-07-09 20:28:12	В	1484.98		1487.46		3.1	120	104.38
	MC001	Lathe A	2025-07-09 20:28:13	В	1514.11		1376.58		3.39	120	115.79
405	MC001	Lathe A	2025-07-09 20:28:13	В	1549.52	19	1396.26	22	5.81	120	111.16
	MC001	Lathe A	2025-07-09 20:28:15	В	1567.97		1352.41		6.37	120	108.83
	MC001	Lathe A	2025-07-09 20:28:16	В	1519.98		1509.45		5.4	120	101.62
	MC001	Lathe A	2025-07-09 20:28:17	В	1592.82		1385.57		6.46	120	113.27
	MC001	Lathe A	2025-07-09 20:28:19	В	1561.79		1363.55		4.43	120	106.56
	MC001 MC001	Lathe A Lathe A	2025-07-09 20:28:19 2025-07-09 20:28:20	B B	1465.72 1547.28		1420.95 1424.73		5.34 4.48	120 120	111.02 119.73
	MC001 MC001	Lathe A	2025-07-09 20:28:20	В	1438.04		1381.89		5.17	120	113.74
	MC001	Lathe A	2025-07-09 20:28:23	В	1555.37		1351.93		6.15	120	109.12
	MC001	Lathe A	2025-07-09 20:28:24	В	1558.46		1474.68		3.54	120	119.24
	MC001	Lathe A	2025-07-09 20:28:25	В	1563.5		1444.91		5.34	120	119.4
	MC001	Lathe A	2025-07-09 20:28:26	В	1526.54		1526.72		3.52	120	104.79
417	MC001	Lathe A	2025-07-09 20:28:28	В	1491	35	1462.77	35	6.41	120	107.44
	MC001	Lathe A	2025-07-09 20:28:30	В	1407.33		1429.48		4.9	120	111.41
	MC001 MC001	Lathe A	2025-07-09 20:28:31	В	1566.32		1484.19		6.16	120	109.28
		Lathe A	2025-07-09 20:28:32	B	1598.66	16	1395.18		5.11	120	100.07

id machine_id	machine_name	timestamp	shift	spindle_rpm	spindle_pulse	shaft_rpm	shaft_pulse tpn		actual_length
421 MC001	Lathe A	2025-07-09 20:28:34	В	1514.65		1538.03	26 4.5	120	117.71
422 MC001	Lathe A	2025-07-09 20:28:34	В	1528.73		1545.96	45 5.03	120	111.91
423 MC001	Lathe A	2025-07-09 20:28:35	В	1434.75		1484.01	32 5.19	120	112.34
424 MC001	Lathe A	2025-07-09 20:28:37	В	1413.61 1415.51		1481.14	19 5.71	120	105.91 119.64
425 MC001 426 MC001	Lathe A Lathe A	2025-07-09 20:28:38 2025-07-09 20:28:39	B B	1415.51		1419.44 1359.26	49 6.33 16 3.78	120 120	100.35
427 MC001	Lathe A	2025-07-09 20:28:41	В	1428.7		1549.93	27 3.79	120	107.96
428 MC001	Lathe A	2025-07-09 20:28:42	В	1575.2		1374.51	17 4.86	120	104.04
429 MC001	Lathe A	2025-07-09 20:28:43	В	1587.1		1531.54	17 4.56	120	107.96
430 MC001	Lathe A	2025-07-09 20:28:44	В	1428.49		1399.49	11 3.07	120	118.36
431 MC001	Lathe A	2025-07-09 20:28:45	В	1460.22	24	1454.61	13 4.13	120	100.6
432 MC001	Lathe A	2025-07-09 20:28:45	В	1458.04		1452.34	20 5.99	120	119.12
433 MC001	Lathe A	2025-07-09 20:28:47	В	1550.58		1421.48	40 3.89	120	113.41
434 MC001	Lathe A	2025-07-09 20:28:48	В	1591.01		1490.99	34 5.28	120	110.01
435 MC001	Lathe A	2025-07-09 20:28:49	В	1542.27		1450.61	43 5.83	120	117.68
436 MC001	Lathe A	2025-07-09 20:28:51	В	1581.65		1397.09	27 5.37	120 120	112.93
437 MC001 438 MC001	Lathe A Lathe A	2025-07-09 20:28:52 2025-07-09 20:28:53	B B	1538.26 1474.21		1458.57 1525.71	45 5.18 16 4.52	120	110.37 114.44
439 MC001	Lathe A	2025-07-09 20:28:55	В	1512.93		1475.1	42 4.69	120	118.33
440 MC001	Lathe A	2025-07-09 20:28:56	В	1406.43		1438.23	36 4.09	120	106.74
441 MC001	Lathe A	2025-07-09 20:28:57	В	1595.77		1399.44	26 5.87	120	110.68
442 MC001	Lathe A	2025-07-09 20:28:58	В	1517.5		1489.93	27 5.63	120	106.96
443 MC001	Lathe A	2025-07-09 20:28:59	В	1404.29	42	1459.4	19 5.08	120	100.14
444 MC001	Lathe A	2025-07-09 20:29:00	В	1590.82		1449.5	48 5.13	120	118.09
445 MC001	Lathe A	2025-07-09 20:29:02	В	1494.83		1440.99	12 5.21	120	110.98
446 MC001	Lathe A	2025-07-09 20:29:03	В	1423.24		1408.11	47 5.25	120	114.95
447 MC001	Lathe A	2025-07-09 20:29:04	В	1563.09		1389.9	35 4.03	120	113.73
448 MC001 449 MC001	Lathe A Lathe A	2025-07-09 20:29:05 2025-07-09 20:29:06	B B	1495.92 1415.76		1538.66 1432.28	10 4.05 26 3.04	120 120	108.67 101.22
450 MC001	Lathe A	2025-07-09 20:29:07	В	1546.21		1409.4	25 3	120	101.22
451 MC001	Lathe A	2025-07-09 20:29:09	В	1432.22		1504.99	22 5.95	120	111.96
452 MC001	Lathe A	2025-07-09 20:29:10	В	1450.57		1383.03	36 4.59	120	118.62
453 MC001	Lathe A	2025-07-09 20:29:11	В	1498.8		1357.28	43 5.47	120	117.62
454 MC001	Lathe A	2025-07-09 20:29:13	В	1433.96	31	1532.38	36 6.28	120	111.14
455 MC001	Lathe A	2025-07-09 20:29:14	В	1420.49		1394.2	17 6.12	120	116.24
456 MC001	Lathe A	2025-07-09 20:29:15	В	1416.14		1451.04	42 4.62	120	108.78
457 MC001	Lathe A	2025-07-09 20:29:17	В	1509.12		1497.4	27 3.66	120	115.61
458 MC001	Lathe A	2025-07-09 20:29:18	В	1582.31		1464.37	24 4.01	120	118.79
459 MC001	Lathe A	2025-07-09 20:29:19	В	1461.53		1465.17	46 3.3	120	117.3
460 MC001 461 MC001	Lathe A Lathe A	2025-07-09 20:29:21 2025-07-09 20:29:21	B B	1565.25 1516.5		1525.8 1480.59	23 4.85 47 3.41	120 120	112.64 107.62
462 MC001	Lathe A	2025-07-09 20:29:22	В	1423.57		1485.6	32 3.6	120	113.78
463 MC001	Lathe A	2025-07-09 20:29:24	В	1498.7		1396.36	15 5.4	120	108.54
464 MC001	Lathe A	2025-07-09 20:29:25	В	1463.78		1458.64	20 4.76	120	109.47
465 MC001	Lathe A	2025-07-09 20:29:26	В	1449.87		1417.77	30 6.26	120	101.52
466 MC001	Lathe A	2025-07-09 20:29:28	В	1424.93	49	1452.65	42 3.55	120	115.44
467 MC001	Lathe A	2025-07-09 20:29:29	В	1521.05		1374.61	25 6.22	120	119.24
468 MC001	Lathe A	2025-07-09 20:29:30	В	1423.49		1543.74	13 4.28	120	106.11
469 MC001	Lathe A	2025-07-09 20:29:31	В	1498.6		1369.56	23 6.12	120	109.93
470 MC001	Lathe A	2025-07-09 20:29:32	В	1567.14		1455.73	19 4.51	120	103.05
471 MC001 472 MC001	Lathe A Lathe A	2025-07-09 20:29:32 2025-07-09 20:29:34	B B	1521.36 1532.6		1494.82 1383.21	30 5.47 22 3.84	120 120	106.1 116.2
473 MC001	Lathe A	2025-07-09 20:29:34	В	1481.52		1466.2	11 3.58	120	111.48
474 MC001	Lathe A	2025-07-09 20:29:34	В	1515.29		1438.21	13 4.95	120	100.65
475 MC001	Lathe A	2025-07-09 20:29:36	В	1419.98		1520.92	27 6.36	120	106.63
476 MC001	Lathe A	2025-07-09 20:29:36	В	1484.96		1480.78	11 5.24	120	105.64
477 MC001	Lathe A	2025-07-09 20:29:36	В	1453.18		1487.59	23 6.27	120	104.25
478 MC001	Lathe A	2025-07-09 20:29:38	В	1464.73		1546.77	22 3.38	120	104.1
479 MC001	Lathe A	2025-07-09 20:29:39	В	1440.06		1400.57	21 4.02	120	104.12
480 MC001	Lathe A	2025-07-09 20:29:39	В	1474.08		1494.11	28 4.69	120	103.33
481 MC001	Lathe A	2025-07-09 20:29:41	В	1587.76		1356.71	21 3.78	120	115.03
482 MC001	Lathe A	2025-07-09 20:29:41	В	1451.27		1377.69	40 5.07	120	112.61
483 MC001	Lathe A	2025-07-09 20:29:41	В	1452.42		1492.84	44 3.12	120	109.06
484 MC001	Lathe A	2025-07-09 20:29:43	В	1400.39		1374.26	17 3.68	120	119.52
485 MC001 486 MC001	Lathe A Lathe A	2025-07-09 20:29:44 2025-07-09 20:29:45	B	1400.1 1526.02		1420.8 1363.36	15 6.08 37 5.73	120 120	102.37 111.55
487 MC001	Lathe A	2025-07-09 20:29:45	В В	1483.54		1527.2	19 5.21	120	102.17
488 MC001	Lathe A	2025-07-09 20:29:47	В	1417.14		1527.2	36 5.45	120	114.68
489 MC001	Lathe A	2025-07-09 20:29:47	В	1401.77		1440.1	45 5.93	120	103.04
490 MC001	Lathe A	2025-07-09 20:29:50		1410.62	39	1536.1	19 5.57		112 1
				Page num	her 7/13		== ==		Jul

id	machine_id	machine_name	timestamp	shift	spindle_rpm	spindle_pulse	shaft_rpm	shaft_pulse	tpm	set_length	actual_length
	MC001	Lathe A	2025-07-09 20:29:51	В	1512.97		1525.63		5.78	120	100.63
	MC001	Lathe A	2025-07-09 20:29:53	В	1527.44		1484.44		3.55	120	107.42
	MC001	Lathe A	2025-07-09 20:29:55	В	1472.51		1549.32		6.38	120	112.05
	MC001 MC001	Lathe A Lathe A	2025-07-09 20:29:55 2025-07-09 20:29:56	B B	1439.2 1586.61		1481.31 1476.27		6.47 3.15	120 120	101.06 105.83
	MC001 MC001	Lathe A	2025-07-09 20:29:58	В	1503.88		1503		4.81	120	107.59
	MC001	Lathe A	2025-07-09 20:29:59	В	1424.65		1531.72		5.81	120	100.32
	MC001	Lathe A	2025-07-09 20:29:59	В	1492.76		1473.92		3.93	120	108.65
	MC001	Lathe A	2025-07-09 20:30:00	В	1496.03		1419.85		5.55	120	100.65
500	MC001	Lathe A	2025-07-09 20:30:01	В	1438.73		1509.28		4.35	120	111.64
	MC001	Lathe A	2025-07-09 20:30:02	В	1408.9		1508.3		6.16	120	108.36
	MC001	Lathe A	2025-07-09 20:30:03	В	1464.51		1514.88		5.67	120	109.51
	MC001	Lathe A	2025-07-09 20:30:04	В	1571.74		1521.38		6.01	120	105.79
	MC001	Lathe A	2025-07-09 20:30:04	В	1447.16		1491.03		3.96	120	100.74
	MC001	Lathe A	2025-07-09 20:30:06	В	1510.62		1530.34		3.37	120	112.02
	MC001 MC001	Lathe A Lathe A	2025-07-09 20:30:07 2025-07-09 20:30:08	B B	1550.46 1562.48		1458.04 1468.07		6.44 4.71	120 120	113.11 114.75
	MC001 MC001	Lathe A	2025-07-09 20:30:10	В	1469.49		1382.24		4.71	120	108.05
	MC001	Lathe A	2025-07-09 20:30:11	В	1535.09		1539.34		3.79	120	119.38
	MC001	Lathe A	2025-07-09 20:30:12	В	1452.53		1423		3.82	120	103.89
	MC001	Lathe A	2025-07-09 20:30:14	В	1582.56		1368.54		3.06	120	119.84
512	MC001	Lathe A	2025-07-09 20:30:15	В	1592.29	50	1392.49	25	4.97	120	104.33
	MC001	Lathe A	2025-07-09 20:30:16	В	1508.77		1437.01		6.19	120	112.14
	MC001	Lathe A	2025-07-09 20:30:17	В	1484.78		1506.7		5.87	120	102.61
	MC001	Lathe A	2025-07-09 20:30:18	В	1540.44		1540.08		4.58	120	105.7
	MC001	Lathe A	2025-07-09 20:30:19	В	1594.95		1409		5.05	120	101.99
	MC001	Lathe A	2025-07-09 20:30:21	В	1594.25		1465.91		4.93	120	118
	MC001 MC001	Lathe A Lathe A	2025-07-09 20:30:22 2025-07-09 20:30:23	B B	1533.29 1496.29		1351.89 1497.52		6.13 5.77	120 120	112.33 110.5
	MC001 MC001	Lathe A	2025-07-09 20:30:25	В	1555.04		1456.06		4.16	120	108.77
	MC001	Lathe A	2025-07-09 20:30:26	В	1431.54		1430.62		3.35	120	108.1
	MC001	Lathe A	2025-07-09 20:30:27	В	1542.62		1440.57		3.43	120	101.22
	MC001	Lathe A	2025-07-09 20:30:28	В	1449.67		1430.21		4.34	120	114.63
	MC001	Lathe A	2025-07-09 20:30:29	В	1457.69		1512.46		5.39	120	110.95
	MC001	Lathe A	2025-07-09 20:30:29	В	1462.05		1475.55		5.57	120	110.4
	MC001	Lathe A	2025-07-09 20:30:31	В	1488.95		1495.21		4.09	120	117.17
		Lathe A	2025-07-09 20:30:31		1567.84		1434.52			120	114.5
	MC001	Lathe A	2025-07-09 20:30:32	В	1415.44		1426.49		6.39	120	109.36
	MC001	Lathe A	2025-07-09 20:30:33	В	1572.65		1477.95		6.2	120	117.06
	MC001 MC001	Lathe A Lathe A	2025-07-09 20:30:34 2025-07-09 20:30:34	B B	1449.62 1420.84		1473.57 1445.71		4.75 4.18	120 120	109.84 103.69
	MC001	Lathe A	2025-07-09 20:30:35	В	1401.41		1523.56		4.91	120	110.4
	MC001	Lathe A	2025-07-09 20:30:36	В	1480.04		1475.47		5.36	120	100.6
	MC001	Lathe A	2025-07-09 20:30:36	В	1522.64		1378.96		6.15	120	106.54
	MC001	Lathe A	2025-07-09 20:30:37	В	1586.69		1493.07		3.46	120	113.55
	MC001	Lathe A	2025-07-09 20:30:38	В	1507.91		1388.84		5.02	120	101.42
	MC001	Lathe A	2025-07-09 20:30:38	В	1403.74		1461.49		3.82	120	108.33
	MC001	Lathe A	2025-07-09 20:30:39	В	1583.8		1539.7		4.77	120	103.63
	MC001	Lathe A	2025-07-09 20:30:40	В	1434.69		1454.39		4.15	120	110.67
	MC001	Lathe A	2025-07-09 20:30:40	В	1414.92		1513.96		4.27	120	114.81
	MC001 MC001	Lathe A Lathe A	2025-07-09 20:30:42 2025-07-09 20:30:42	B B	1431.36 1561.49		1496.56 1503.2		5.66 3.26	120 120	115.79 112.54
	MC001 MC001	Lathe A	2025-07-09 20:30:42	В	1518.47		1464.11		6.26	120	113.41
	MC001	Lathe A	2025-07-09 20:30:44	В	1414.13		1480.74		6.48	120	113.16
	MC001	Lathe A	2025-07-09 20:30:45	В	1401.13		1527.18		6.19	120	100.54
	MC001	Lathe A	2025-07-09 20:30:45	В	1434.14		1411.43		5.04	120	104.73
	MC001	Lathe A	2025-07-09 20:30:46	В	1433.76		1473.21		6.45	120	114.99
548	MC001	Lathe A	2025-07-09 20:30:47	В	1584.47	37	1431.81	40	4.88	120	100.03
	MC001	Lathe A	2025-07-09 20:30:47	В	1587.75		1410.06		5.45	120	114.39
	MC001	Lathe A	2025-07-09 20:30:49	В	1578.6		1352.92		3.39	120	108.69
	MC001	Lathe A	2025-07-09 20:30:49	В	1577.43		1393.13		4.18	120	119.51
	MC001	Lathe A	2025-07-09 20:30:49	В	1411.59		1454.2		5.62	120	118.29
	MC001	Lathe A	2025-07-09 20:30:51	В	1403.23		1542		4.14	120	116.63
	MC001	Lathe A	2025-07-09 20:30:51	В	1477.17		1473.18		3.39	120	114.96
	MC001 MC001	Lathe A	2025-07-09 20:30:52 2025-07-09 20:30:53	B B	1465.91 1478.11		1433.38 1540.69		3.28 6.3	120	108.34 112.69
	MC001 MC001	Lathe A Lathe A	2025-07-09 20:30:53	В	1478.11		1483.96		4.7	120 120	102
	MC001 MC001	Lathe A	2025-07-09 20:30:54	В	1534.56		1398.66		3.81	120	115.65
	MC001 MC001	Lathe A	2025-07-09 20:30:56	В	1483.2		1453.93		4.4	120	118.45
		Lathe A	2025-07-09 20:30:57		1404 57	42	1442.83			120	101.56
			1		Page num	hor: 0/12				1	Jul

id	machine_id	machine_name	timestamp	shift	spindle_rpm	spindle_pulse	shaft_rpm	shaft_pulse	tpm	set_length	actual_length
561	MC001	Lathe A	2025-07-09 20:30:57	В	1507.19	49	1432.45	29	4.51	120	103.32
562	MC001	Lathe A	2025-07-09 20:30:59	В	1474.62	23	1535.62	17	6.45	120	102.68
563	MC001	Lathe A	2025-07-09 20:31:00	В	1591.6	18	1400.29	46	6	120	107.39
564	MC001	Lathe A	2025-07-09 20:31:01	В	1535.52	50	1534.82	28	3.96	120	113.56
565	MC001	Lathe A	2025-07-09 20:31:03	В	1550.94	12	1549.14	18	4.98	120	107.08
566	MC001	Lathe A	2025-07-09 20:31:03	В	1409.06	19	1488.91	23	6.05	120	112.71
567	MC001	Lathe A	2025-07-09 20:31:04	В	1554.18	39	1538.14	45	4.99	120	116.51
568	MC001	Lathe A	2025-07-09 20:31:06	В	1420.59	33	1352.3	49	4.45	120	109.34
569	MC001	Lathe A	2025-07-09 20:31:07	В	1423.22	48	1486.46	49	4.92	120	107.15
570	MC001	Lathe A	2025-07-09 20:31:08	В	1478.4	38	1430.27	24	3.32	120	101.22
571	MC001	Lathe A	2025-07-09 20:31:10	В	1439.11	41	1477.07	35	4.45	120	107.25
572	MC001	Lathe A	2025-07-09 20:31:11	В	1588.6	15	1412.12	44	5.91	120	116.91
573	MC001	Lathe A	2025-07-09 20:31:12	В	1456.38	48	1396.62	17	4.05	120	106.72
574	MC001	Lathe A	2025-07-09 20:31:14	В	1493.77	13	1475.48	22	3.23	120	114.82
575	MC001	Lathe A	2025-07-09 20:31:14	В	1423.8	38	1373.09	19	4.09	120	119.4
576	MC001	Lathe A	2025-07-09 20:31:15	В	1580.97	40	1471.41	14	3.52	120	119.7
577	MC001	Lathe A	2025-07-09 20:31:17	В	1509.79	15	1462.81	40	5.01	120	111.78
578	MC001	Lathe A	2025-07-09 20:31:18	В	1461.05	33	1467.85	38	6.44	120	110.84
	MC001	Lathe A	2025-07-09 20:31:19	В	1596.57		1379.91		5.68	120	112.3
580	MC001	Lathe A	2025-07-09 20:31:21	В	1443.98	40	1534.55	18	3.7	120	119.92
581	MC001	Lathe A	2025-07-09 20:31:22	В	1424.05	49	1450.63	49	3.97	120	111.79
582	MC001	Lathe A	2025-07-09 20:31:23	В	1549.52	28	1487.35	35	3.11	120	110.4

Database: machine_log, Table: machine_registry, Purpose: Dumping data

id	ip_addre	machine	machine_na
	SS	_id	me
1	127.0.0.1	MC001	Lathe A
2	127.0.0.2	MC002	Lathe B
3	127.0.0.3	MC003	Lathe C

Database: machine_log, Table: machine_summary, Purpose: Dumping data

id	date	shif	machine	machine_na	avg_spindle_	avg_shaft_r	avg_tp	run_hou	run_minut	motor_efficie	last_updated
		t	_id	me	rpm	pm	m	rs	es	ncy	
1	2025-07-09	R	MC001	Lathe A	1501 24	1452 69	4 77455	0	10	96 7662	2025-07-09 20:31:21

Database: machine_log, Table: master_machine, Purpose: Dumping data

id	machine_n	alip	_addre	statu	date_add
	l me		SS	s	ed

Database: machine_log, Table: shift_completed_log, Purpose: Dumping data

id	dat	tim	machine	machine_r	na shif	lengt
	e	е	id	me	t	h