


 EUMOS 40509 CS-TS LOGISTIC LAB Cargo Securing Training Services Safe transport	Customer DRUMCLIP		Date 10-5-2022	 EUMOS 40 509
	Project Drumclip test	Reference PE DC 19 B 4 S4	Revision 01	

1. Load unit descriptive data

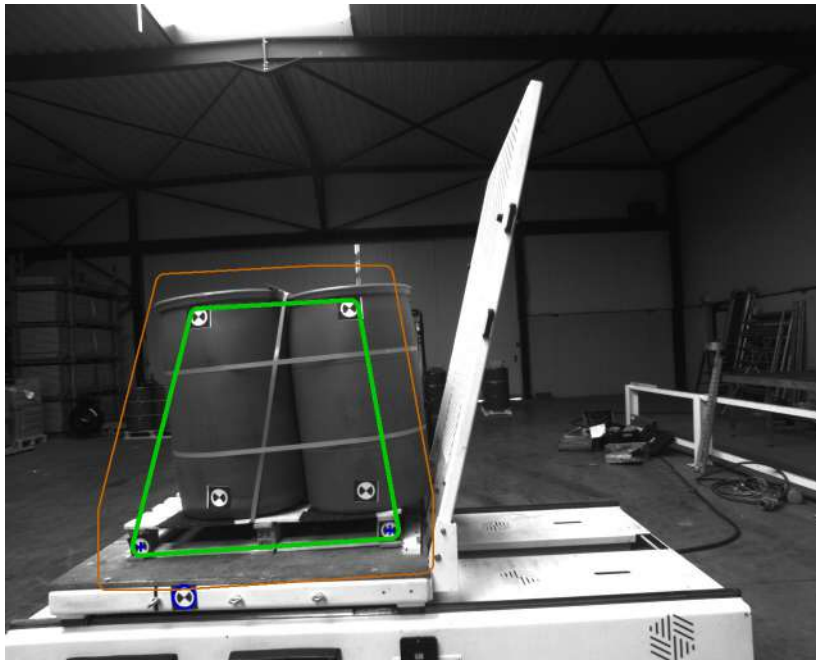
- *Dimensions (mm):* 1000 X 1150 X 1150
- *Weight (kg):* 850
- *Center of Gravity (mm):* H 600 x L575 x W575
- *Nature of the Products:* Plastic drums
- *Description of Primary Pack:* 4 plastic drums SIGNODE 4 Straps 4 drumclips
DC 19 B Green
- *Layer Stacking pattern:* 1 layer of 4 drums
- *Type of Pallet:* CP 9
- *Responsible of the description:* Dhr. Wouter Geldhof

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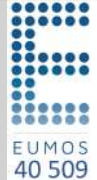
2. Test related data

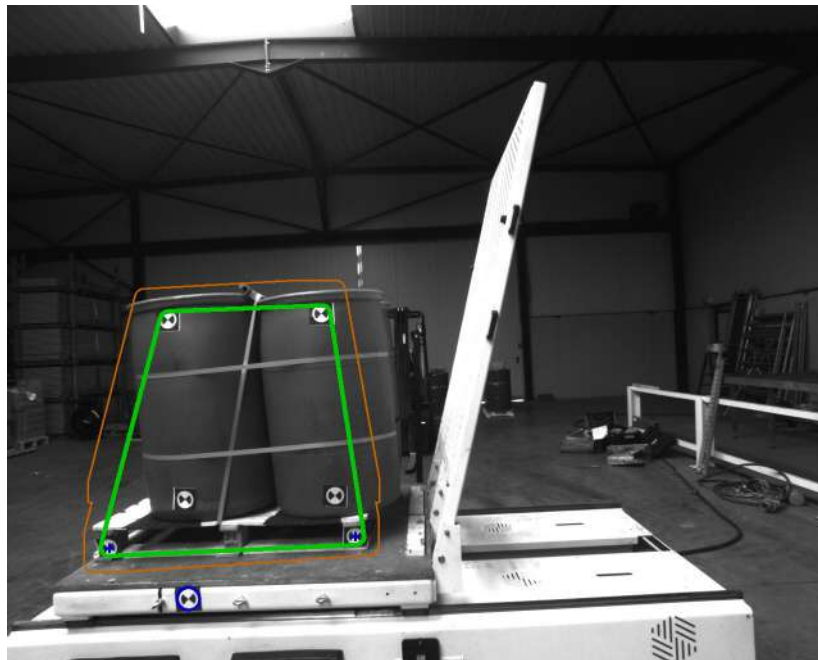
2.1. Orientation of the test: Length

- *Date of Test:* 10/5/2022
- *Place:* Brugge
- *Rigidity (g):* 0.80G
- *Testing History:* non

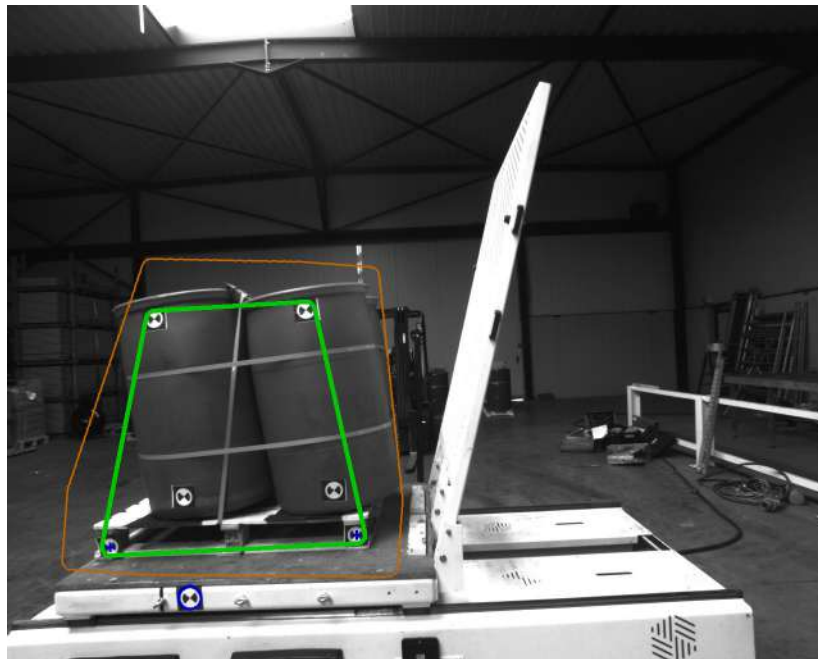


Load Before Test



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Permanent Deformation



Max Elastic Deformation

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3. Test Validation

- *Temperature of the test area:* 22°
- *Humidity of the test area:* 65%
- *Responsible of Report:* Dhr. Geert Frans
- *Sign:*



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4. Annex



Date	10/5/2022
Project/Customer	Drumclip
Load Reference	PE DC 19 B 4 S4
Acceleration test	0.80G
Load Height (mm)	1000
Load Weight (kg)	850
Test Method	CUSTOM
Center Of Gravity	0

Permanent		Elastic (10%)
h < 200 mm	h > 200 mm	
40 mm	60 mm	100 mm

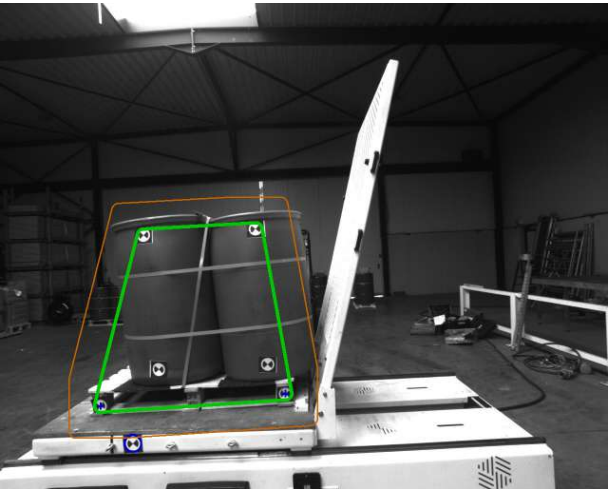


Figure 1. First Detected Frame



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Permanent Deformation				
Frame	Time (mseconds)	Def (mm)	Def limit	Ok/Not OK
479	3976	47	60	OK

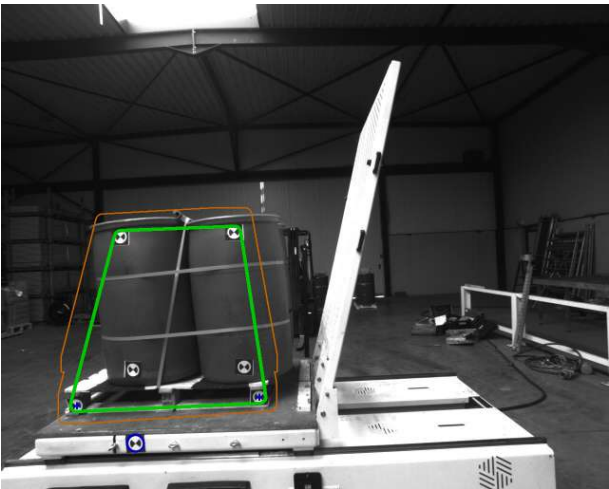
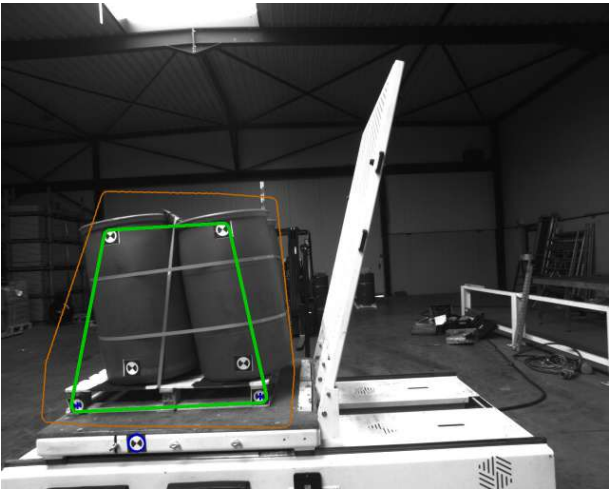


Figure 2. Permanent Deformation

Max/Over Elastic Deformation				
Frame	Time (mseconds)	Def (mm)	Def limit	Ok/Not OK
243	2017	49	100	OK





 EUMOS 40509 CSTS CS-TS LOGISTIC LAB Frage-Sicherung - Training Services Safe transport	Customer DRUMCLIP		Date 10-5-2022	 EUMOS 40 509
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Figure 3. Maximum Elastic Deformation

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Frame	Time (mseconds)	Def (mm)	Def limit	Ok/Not OK
0	0	0	100	OK
1	8	0	100	OK
2	17	0	100	OK
3	25	0	100	OK
4	33	0	100	OK
5	42	0	100	OK
6	50	0	100	OK
7	58	0	100	OK
8	66	0	100	OK
9	75	0	100	OK
10	83	0	100	OK
11	91	0	100	OK
12	100	0	100	OK
13	108	0	100	OK
14	116	0	100	OK
15	125	0	100	OK
16	133	0	100	OK
17	141	0	100	OK
18	149	0	100	OK
19	158	0	100	OK
20	166	0	100	OK
21	174	0	100	OK
22	183	0	100	OK
23	191	0	100	OK
24	199	0	100	OK
25	208	0	100	OK
26	216	0	100	OK
27	224	0	100	OK
28	232	0	100	OK
29	241	0	100	OK
30	249	1	100	OK
31	257	1	100	OK
32	266	1	100	OK
33	274	1	100	OK
34	282	1	100	OK
35	290	1	100	OK
36	299	1	100	OK
37	307	1	100	OK
38	315	3	100	OK
39	324	3	100	OK
40	332	3	100	OK
41	340	3	100	OK
42	349	3	100	OK
43	357	3	100	OK



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Frame	Time (mseconds)	Def (mm)	Def limit	Ok/Not OK
44	365	3	100	OK
45	374	3	100	OK
46	382	5	100	OK
47	390	5	100	OK
48	398	5	100	OK
49	407	5	100	OK
50	415	5	100	OK
51	423	5	100	OK
52	432	7	100	OK
53	440	7	100	OK
54	448	7	100	OK
55	457	7	100	OK
56	465	7	100	OK
57	473	7	100	OK
58	481	9	100	OK
59	490	9	100	OK
60	498	9	100	OK
61	506	9	100	OK
62	515	9	100	OK
63	523	9	100	OK
64	531	11	100	OK
65	540	12	100	OK
66	548	12	100	OK
67	556	12	100	OK
68	564	12	100	OK
69	573	12	100	OK
70	581	13	100	OK
71	589	13	100	OK
72	598	14	100	OK
73	606	14	100	OK
74	614	15	100	OK
75	622	15	100	OK
76	631	15	100	OK
77	639	15	100	OK
78	647	17	100	OK
79	656	17	100	OK
80	664	18	100	OK
81	672	18	100	OK
82	681	18	100	OK
83	689	18	100	OK
84	697	19	100	OK
85	706	20	100	OK
86	714	20	100	OK
87	722	20	100	OK

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Frame	Time (mseconds)	Def (mm)	Def limit	Ok/Not OK
88	730	20	100	OK
89	739	22	100	OK
90	747	22	100	OK
91	755	22	100	OK
92	764	24	100	OK
93	772	24	100	OK
94	780	26	100	OK
95	789	26	100	OK
96	797	26	100	OK
97	805	26	100	OK
98	813	28	100	OK
99	822	28	100	OK
100	830	28	100	OK
101	838	28	100	OK
102	847	28	100	OK
103	855	27	100	OK
104	863	27	100	OK
105	872	28	100	OK
106	880	28	100	OK
107	888	30	100	OK
108	896	30	100	OK
109	905	30	100	OK
110	913	32	100	OK
111	921	34	100	OK
112	930	34	100	OK
113	938	36	100	OK
114	946	32	100	OK
115	955	34	100	OK
116	963	33	100	OK
117	971	36	100	OK
118	979	38	100	OK
119	988	40	100	OK
120	996	42	100	OK
121	1004	45	100	OK
122	1013	36	100	OK
123	1021	39	100	OK
124	1029	42	100	OK
125	1038	37	100	OK
126	1046	39	100	OK
127	1054	43	100	OK
128	1062	44	100	OK
129	1071	38	100	OK
130	1079	42	100	OK
131	1087	37	100	OK

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Frame	Time (mseconds)	Def (mm)	Def limit	Ok/Not OK
132	1096	37	100	OK
133	1104	37	100	OK
134	1112	38	100	OK
135	1120	37	100	OK
136	1129	37	100	OK
137	1137	39	100	OK
138	1145	37	100	OK
139	1154	37	100	OK
140	1162	35	100	OK
141	1170	35	100	OK
142	1179	31	100	OK
143	1187	28	100	OK
144	1195	28	100	OK
145	1204	26	100	OK
146	1212	26	100	OK
147	1220	26	100	OK
148	1228	24	100	OK
149	1237	26	100	OK
150	1245	26	100	OK
151	1253	26	100	OK
152	1262	28	100	OK
153	1270	27	100	OK
154	1278	30	100	OK
155	1286	30	100	OK
156	1295	30	100	OK
157	1303	28	100	OK
158	1311	30	100	OK
159	1320	28	100	OK
160	1328	28	100	OK
161	1336	28	100	OK
162	1345	28	100	OK
163	1353	26	100	OK
164	1361	26	100	OK
165	1370	26	100	OK
166	1378	24	100	OK
167	1386	24	100	OK
168	1394	19	100	OK
169	1403	14	100	OK
170	1411	8	100	OK
171	1419	5	100	OK
172	1428	2	100	OK
173	1436	1	100	OK
174	1444	0	100	OK
175	1453	41	100	OK

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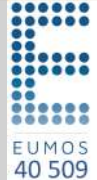
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Frame	Time (mseconds)	Def (mm)	Def limit	Ok/Not OK
176	1461	42	100	OK
177	1469	43	100	OK
178	1477	45	100	OK
179	1486	45	100	OK
180	1494	44	100	OK
181	1502	43	100	OK
182	1511	43	100	OK
183	1519	43	100	OK
184	1527	42	100	OK
185	1536	42	100	OK
186	1544	41	100	OK
187	1552	34	100	OK
188	1560	34	100	OK
189	1569	35	100	OK
190	1577	30	100	OK
191	1585	35	100	OK
192	1594	25	100	OK
193	1602	37	100	OK
194	1610	39	100	OK
195	1619	42	100	OK
196	1627	42	100	OK
197	1635	42	100	OK
198	1643	43	100	OK
199	1652	44	100	OK
200	1660	44	100	OK
201	1668	45	100	OK
202	1677	26	100	OK
203	1685	44	100	OK
204	1693	44	100	OK
205	1702	43	100	OK
206	1710	44	100	OK
207	1718	44	100	OK
208	1726	44	100	OK
209	1735	44	100	OK
210	1743	43	100	OK
211	1751	42	100	OK
212	1760	43	100	OK
213	1768	43	100	OK
214	1776	43	100	OK
215	1785	45	100	OK
216	1793	37	100	OK
217	1801	45	100	OK
218	1809	45	100	OK
219	1818	47	100	OK

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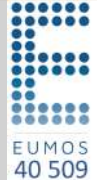
 Eumos 40509 CSTS CS-TS LOGISTIC LAB <small>Crugs, Saucings, Taring, Sontars</small> Safe transport	Customer DRUMCLIP		Date 10-5-2022		 EUMOS 40 509
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Frame	Time (mseconds)	Def (mm)	Def limit	Ok/Not OK
220	1826	47	100	OK
221	1834	47	100	OK
222	1843	47	100	OK
223	1851	47	100	OK
224	1859	47	100	OK
225	1868	47	100	OK
226	1876	47	100	OK
227	1884	47	100	OK
228	1892	47	100	OK
229	1901	47	100	OK
230	1909	47	100	OK
231	1917	47	100	OK
232	1926	47	100	OK
233	1934	40	100	OK
234	1942	47	100	OK
235	1951	47	100	OK
236	1959	47	100	OK
237	1967	47	100	OK
238	1975	47	100	OK
239	1984	47	100	OK
240	1992	47	100	OK
241	2000	47	100	OK
242	2009	47	100	OK
243	2017	49	100	OK
244	2025	49	100	OK
245	2034	47	100	OK
246	2042	47	100	OK
247	2050	47	100	OK
248	2058	47	100	OK
249	2067	49	100	OK
250	2075	22	100	OK
251	2083	49	100	OK
252	2092	47	100	OK
253	2100	47	100	OK
254	2108	47	100	OK
255	2116	47	100	OK
256	2125	47	100	OK
257	2133	47	100	OK
258	2141	47	100	OK
259	2150	47	100	OK
260	2158	47	100	OK
261	2166	47	100	OK
262	2175	47	100	OK
263	2183	47	100	OK

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Frame	Time (mseconds)	Def (mm)	Def limit	Ok/Not OK
264	2191	47	100	OK
265	2200	47	100	OK
266	2208	47	100	OK
267	2216	47	100	OK
268	2224	47	100	OK
269	2233	47	100	OK
270	2241	47	100	OK
271	2249	47	100	OK
272	2258	47	100	OK
273	2266	47	100	OK
274	2274	47	100	OK
275	2282	49	100	OK
276	2291	49	100	OK
277	2299	47	100	OK
278	2307	47	100	OK
279	2316	47	100	OK
280	2324	47	100	OK
281	2332	49	100	OK
282	2341	47	100	OK
283	2349	47	100	OK
284	2357	47	100	OK
285	2366	47	100	OK
286	2374	49	100	OK
287	2382	49	100	OK
288	2390	47	100	OK
289	2399	47	100	OK
290	2407	47	100	OK
291	2415	47	100	OK
292	2424	47	100	OK
293	2432	47	100	OK
294	2440	47	100	OK
295	2448	47	100	OK
296	2457	47	100	OK
297	2465	47	100	OK
298	2473	47	100	OK
299	2482	47	100	OK
300	2490	47	100	OK
301	2498	47	100	OK
302	2507	47	100	OK
303	2515	47	100	OK
304	2523	47	100	OK
305	2532	47	100	OK
306	2540	47	100	OK
307	2548	47	100	OK

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Frame	Time (mseconds)	Def (mm)	Def limit	Ok/Not OK
308	2556	47	100	OK
309	2565	47	100	OK
310	2573	47	100	OK
311	2581	47	100	OK
312	2590	47	100	OK
313	2598	47	100	OK
314	2606	47	100	OK
315	2614	47	100	OK
316	2623	47	100	OK
317	2631	47	100	OK
318	2639	47	100	OK
319	2648	47	100	OK
320	2656	47	100	OK
321	2664	47	100	OK
322	2673	47	100	OK
323	2681	47	100	OK
324	2689	47	100	OK
325	2698	47	100	OK
326	2706	47	100	OK
327	2714	47	100	OK
328	2722	47	100	OK
329	2731	47	100	OK
330	2739	47	100	OK
331	2747	48	100	OK
332	2756	47	100	OK
333	2764	47	100	OK
334	2772	47	100	OK
335	2781	47	100	OK
336	2789	47	100	OK
337	2797	47	100	OK
338	2805	47	100	OK
339	2814	47	100	OK
340	2822	47	100	OK
341	2830	47	100	OK
342	2839	47	100	OK
343	2847	47	100	OK
344	2855	47	100	OK
345	2864	47	100	OK
346	2872	47	100	OK
347	2880	47	100	OK
348	2888	47	100	OK
349	2897	47	100	OK
350	2905	47	100	OK
351	2913	47	100	OK

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Frame	Time (mseconds)	Def (mm)	Def limit	Ok/Not OK
352	2922	47	100	OK
353	2930	47	100	OK
354	2938	47	100	OK
355	2947	47	100	OK
356	2955	47	100	OK
357	2963	47	100	OK
358	2971	47	100	OK
359	2980	47	100	OK
360	2988	47	100	OK
361	2996	47	100	OK
362	3005	47	100	OK
363	3013	47	100	OK
364	3021	47	100	OK
365	3030	47	100	OK
366	3038	47	100	OK
367	3046	47	100	OK
368	3054	47	100	OK
369	3063	47	100	OK
370	3071	47	100	OK
371	3079	47	100	OK
372	3088	47	100	OK
373	3096	47	100	OK
374	3104	47	100	OK
375	3113	47	100	OK
376	3121	47	100	OK
377	3129	47	100	OK
378	3137	47	100	OK
379	3146	47	100	OK
380	3154	47	100	OK
381	3162	47	100	OK
382	3171	47	100	OK
383	3179	47	100	OK
384	3187	47	100	OK
385	3196	47	100	OK
386	3204	47	100	OK
387	3212	47	100	OK
388	3220	47	100	OK
389	3229	47	100	OK
390	3237	47	100	OK
391	3245	47	100	OK
392	3254	47	100	OK
393	3262	47	100	OK
394	3270	47	100	OK
395	3279	47	100	OK

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Frame	Time (mseconds)	Def (mm)	Def limit	Ok/Not OK
396	3287	47	100	OK
397	3295	47	100	OK
398	3303	47	100	OK
399	3312	47	100	OK
400	3320	47	100	OK
401	3328	47	100	OK
402	3337	47	100	OK
403	3345	47	100	OK
404	3353	47	100	OK
405	3362	47	100	OK
406	3370	47	100	OK
407	3378	47	100	OK
408	3386	47	100	OK
409	3395	47	100	OK
410	3403	47	100	OK
411	3411	47	100	OK
412	3420	47	100	OK
413	3428	47	100	OK
414	3436	47	100	OK
415	3445	47	100	OK
416	3453	47	100	OK
417	3461	47	100	OK
418	3469	47	100	OK
419	3478	47	100	OK
420	3486	47	100	OK
421	3494	47	100	OK
422	3503	47	100	OK
423	3511	47	100	OK
424	3519	47	100	OK
425	3528	47	100	OK
426	3536	47	100	OK
427	3544	47	100	OK
428	3552	47	100	OK
429	3561	47	100	OK
430	3569	47	100	OK
431	3577	47	100	OK
432	3586	47	100	OK
433	3594	47	100	OK
434	3602	47	100	OK
435	3611	47	100	OK
436	3619	47	100	OK
437	3627	47	100	OK
438	3635	47	100	OK
439	3644	47	100	OK

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440	3652	47	100	OK
441	3660	47	100	OK
442	3669	47	100	OK
443	3677	47	100	OK
444	3685	47	100	OK
445	3694	47	100	OK
446	3702	47	100	OK
447	3710	47	100	OK
448	3718	47	100	OK
449	3727	47	100	OK
450	3735	47	100	OK
451	3743	47	100	OK
452	3752	47	100	OK
453	3760	47	100	OK
454	3768	47	100	OK
455	3777	47	100	OK
456	3785	47	100	OK
457	3793	47	100	OK
458	3801	47	100	OK
459	3810	47	100	OK
460	3818	47	100	OK
461	3826	47	100	OK
462	3835	47	100	OK
463	3843	47	100	OK
464	3851	47	100	OK
465	3860	48	100	OK
466	3868	47	100	OK
467	3876	47	100	OK
468	3884	47	100	OK
469	3893	47	100	OK
470	3901	47	100	OK
471	3909	47	100	OK
472	3918	48	100	OK
473	3926	47	100	OK
474	3934	47	100	OK
475	3943	47	100	OK
476	3951	47	100	OK
477	3959	47	100	OK
478	3967	47	100	OK
479	3976	47	100	OK