

SUB-COMMITTEE ON SHIP DESIGN AND
CONSTRUCTION
7th session
Agenda item 10

SDC 7/INF.5
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AMENDMENTS TO THE 2011 ESP CODE

Thickness measurements at the first renewal survey of double hull oil tankers

Submitted by IACS

SUMMARY

Executive summary: The annex to this document provides the data collected from 157 oil tankers, as referred to in document SDC 7/10/1

Strategic direction, if applicable: Other work

Output: OW 2

Action to be taken: Paragraph 2

Related document: SDC 7/10/1

1 In the context of the discussion and proposal made in document SDC 7/10/1, whereby only suspect areas are to be subject to thickness measurements at the first renewal survey of double hull oil tankers, the annex to this document provides the data collected from 157 oil tankers (see paragraphs 3 and 4 of document SDC 7/10/1).

Action requested of the Sub-Committee

2 The Sub-Committee is invited to note the information provided in the annex, in its consideration of document SDC 7/10/1.

ANNEX
IACS DATA COLLECTIONS FOR 157 DOUBLE HULL OIL TANKERS, RENEWAL SURVEY NO.1 (SS1)

Ship No	Date of Built	Ship Type	Gross Tonnage	Deadweight (Tonnes)	Year of SS1	$(T_{as-built} - T_{meas}) / T_{as-built}$ Normal range %	$(T_{as-built} - T_{meas}) / T_{as-built}$ Extreme values %	Coating
1.	2009	Oil	5034	7008	2014	0 - 2	4	Good, COT full coating
2.	2009	Oil	81347	158007	2014	0 - 1	1.5	Good, COT full coating
3.	2010	Oil/Chem	8581	13021	2015	0 - 0.5	1	Good, COT full coating
4.	2010	Oil	60379	107507	2015	0 - 2	5	Good, COT part coated
5.	2010	Oil/Chem	42225	73982	2015	0 - 1	4	Good, COT full coating
6.	2010	Oil	60379	107481	2015	0 - 1	2	Good, COT full coating
7.	2011	Oil	161273	320780	2015	0 - 1	1.5	COT no coating
8.	2011	Oil	56326	104579	2016	0 - 1	3	Good, COT part coated
9.	2011	Oil	63299	115459	2016	0 - 1	2	Good, COT part coated
10.	2012	Oil	81326	158542	2017	0 - 1	3	Good, COT part coated
11.	2011	Oil	56326	104736	2017	0 - 1	2	Good, COT part coated
12.	2011	Oil	164680	318227	2017	0 - 1	1	Good, COT part coated
13.	2013	Oil	83824	160025	2017	0 - 1	2	Good, COT full coating
14.	2012	Oil	164796	317473	2018	0 - 1	2	Good, COT part coated
15.	2012	Oil	801	1316	2018	0 - 1	3.5	Good, COT full coating
16.	2009	Oil	59315	108433	2013	0 - 1	1.5	Good, COT full coating
17.	2009	Oil/Chem	30638	52610	2014	0 - 2	7.7	Good, COT full coating
18.	2010	Oil/Chem	30638	52725	2015	0 - 2	8,3	Good, COT full coating
19.	2011	Oil/Chem	30638	52579	2016	0 - 2	6,7	Good, COT full coating
20.	2011	Oil/Chem	30638	52554	2016	0 - 1	1,7	Good, COT full coating
21.	2011	Oil/Chem	30638	51935	2016	0 - 0.5	1.1	Good, COT full coating
22.	2012	Oil/Chem	30638	51824	2017	0 - 1	2.5	Good, COT full coating
23.	2012	Oil/Chem	2340	3200	2017	0 - 2	3	Good, COT full coating
24.	2011	Oil	61237	115594	2016	0 - 1	2	Good, COT part coated
25.	2011	Oil	83474	156630	2016	0 - 1	3.5	COT no coating
26.	2010	Oil	156702	297580	2015	0 - 0.5	1.1	COT no coating
27.	2010	Oil	26916	47377	2015	0 - 2	3.3	Good, COT full coating
28.	2010	Oil	61572	107481	2015	0 - 1	2.7	Good, COT part coated
29.	2012	Oil	63014	88258	2017	0 - 2	4	COT no coating
30.	2012	Oil/Chem	5064	6230	2017	0 - 1	1.1	Good, COT full coating

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31.	2012	Oil/Chem	24463	39708	2017	0 - 1	2	Good, COT full coating
32.	2013	Oil	160987	319063	2018	0	0	Good, COT part coated
33.	2012	Oil	160716	314000	2017	0 - 1	1.6	Good, COT part coated
34.	2012	Oil	57244	105276	2017	0 - 0.5	1	Good, COT full coating
35.	2012	Oil	158465	318227	2017	0 - 1	2.5	Good, COT part coated
36.	2011	Oil	156651	269919	2016	0 - 2	2.7	Good, COT part coated
37.	2011	Oil	61332	115903	2016	0 - 1	2	Good, COT part coated
38.	2011	Oil	63005	88322	2018	0 - 3	5.9	COT no coating
39.	2008	Oil	4587	7520	2013	0 - 2	2	Good, COT full coating
40.	2009	Oil	81347	72722	2013	0 - 5	5	Good, COT full coating
41.	2012	Oil	5075	7026	2017	0 - 1.5	1.5	Good, COT full coating
42.	2012	Oil	3953	6879	2017	0 - 3	3	Good, COT full coating
43.	2011	Oil	4373	5565	2016	0 - 3	3	Good, COT full coating
44.	2010	Oil	7852	13002	2015	0	0	COT no coating
45.	2010	Oil	49866	70053	2015	0 - 5	5	Good, COT full coating
46.	2009	Oil	7834	13008	2014	0 - 1	1	Good, COT full coating
47.	2011	Oil	4793	7102	2016	0 - 1	1	Good, COT full coating
48.	2010	Oil	49866	69830	2015	0	0	Good, COT full coating
49.	2008	Oil	49597	72722	2013	0 - 4.2	4.2	COT no coating
50.	2011	Oil	4373	5536	2016	0-1.1	1.1	Good, COT full coating
51.	2011	OIL	4373	5519	2016	0-1	1	Good, COT full coating
52.	2009	OIL	2897	3500	2014	0-2.6	2.6	Good, COT full coating
53.	2012	OIL	5075	7036	2017	0-0.5	0.5	Good, COT full coating
54.	2010	Oil	172146	319869	2014	0 - 2	3	Good, COT full coating
55.	2010	Oil	160619	306953	2015	0 - 2	2	COT no coating
56.	2010	Oil	162330	321050	2015	0 - 2	2	COT no coating
57.	2011	Oil	160493	309988	2015	0 - 2	2	Good, COT part coated
58.	2010	Oil	162330	321234	2015	0 - 2	2	COT no coating
59.	2011	Oil	162330	321052	2015	0 - 2	2	COT no coating
60.	2012	Oil	160705	313990	2017	0 - 2	2	COT no coating
61.	2012	Oil	160705	313990	2017	0 - 2	2	Good, COT part coated
62.	2013	Oil	164533	313983	2017	0 - 1	1	Good, COT part coated
63.	2009	Oil	162098	321300	2013	0 - 1	2	COT no coating

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64.	2009	Oil/Chem	23342	36677	2014	0 - 2	2	Good, COT full coating
65.	2009	Oil/Chem	29733	51498	2014	0 - 1	2	Good, COT full coating
66.	2009	Oil/Chem	23342	36677	2014	0 - 2	2	Good, COT full coating
67.	2010	Oil/Chem	29733	51483	2015	0 - 2	2	Good, COT full coating
68.	2010	Oil/Chem	63005	88322	2015	0 - 2	2	Good, COT full coating
69.	2009	Oil	160,068	309,960	2014	0-2	3	COT no coating
70.	2010	Oil	28,051	45,902	2015	0-1	2.5	Good, COT full coating
71.	2010	Oil	159,828	302,628	2015	0-3	10	Good, COT part coated
72.	2010	Oil	160,151	310,406	2015	0-2	3.6	COT no coating
73.	2010	Oil	40,975	74,905	2015	0-2	11	Good, COT full coating
74.	2010	Oil	159,943	302,241	2015	0-3	4	COT no coating
75.	2010	Oil	28,465	50,083	2015	1-2	3	Good, COT full coating
76.	2010	Oil	28,725	45,996	2015	0-1	1	Good, COT full coating
77.	2011	Oil	60,379	107,508	2016	0	0	Good, COT full coating
78.	2011	Oil	28,747	45,955	2016	0 - 0.5	0.74	Good, COT full coating
79.	2011	Oil	2,818	4,261	2016	0 - 2	5	Good, COT full coating
80.	2011	Oil	28,802	48,020	2015	0	0	Good, COT full coating
81.	2013	Oil	13,201	19,000	2017	0 - 0.5	2	Good, COT full coating
82.	2012	Oil/Chem	11,707	19,801	2017	0 - 1	2	COT no coating
83.	2010	Oil/Chem	19,968	33,636	2015	0 - 0.5	1.7	COT no coating
84.	2009	Oil	29,578	45,790	2014	0 - 2	4.5	Good, COT full coating
85.	2009	Oil	156,702	297,557	2014	0 - 1	2	COT no coating
86.	2009	Oil	152,727	297,244	2014	0 - 2	5.6	COT no coating
87.	2009	Oil/Chem	6,085	8,963	2014	0 - 2	3.3	Good, COT full coating
88.	2009	Oil/Chem	8,539	13,033	2014	0 - 3	4.4	Good, COT full coating
89.	2009	Oil	26,992	41,968	2014	0 - 1	2.5	Good, COT full coating
90.	2010	Oil	7,524	11,879	2015	0 - 1	2	Good, COT full coating
91.	2010	Oil	152,727	297,136	2015	0 - 2	3.1	COT no coating
92.	2010	Oil/Chem	8,525	12,000	2015	0 - 3	5.5	Good, COT full coating
93.	2010	Oil	157,039	297,101	2015	0 - 4	8.9	COT no coating
94.	2011	Oil	156,651	296,865	2016	0 - 1	1.8	COT no coating
95.	2011	Oil	18,387	27,112	2016	0 - 2	2.7	Good, COT full coating
96.	2011	Oil	31,530	49,985	2016	0 - 1	1.8	Good, COT full coating

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97.	2012	Oil	18,387	27,074	2017	0 - 2	4.2	Good, COT full coating
98.	2013	Oil/Chem	5,738	7,914	2018	0 - 1	2	COT no coating
99.	4/3/2009	Oil	42,403	74889.2	2014	1.8	2.6	Good, COT full coating
100.	6/9/2009	Oil	42,403	74859.3	2014	0.47	2	Good, COT full coating
101.	6/25/2009	Oil	162,412	321136.7	2014	0.152	0.8	Good, COT full coating
102.	7/24/2009	Oil/Chem	8,625	13094	2014	1.88	5	Good, COT full coating
103.	10/10/2009	Oil	29,845	47878.3	2014	0.72	2.6	Good, COT full coating
104.	10/27/2009	Oil/Chem	8,625	13140.22	2015	0.8254	3.3	Good, COT full coating
105.	1/25/2010	Oil	29,993	51196	2015	0.7	1	Good, COT full coating
106.	1/27/2010	Oil	29,845	47795	2015	0.8	1.8	Good, COT full coating
107.	7/23/2010	Oil	42,845	73606	2015	0.3	0.5	Good, COT full coating
108.	8/5/2010	Oil	42,845	73580	2015	0.756	3.1	Good, COT full coating
109.	9/15/2010	Oil	42,845	73594.9	2015	0.68	2.8	Good, COT full coating
110.	9/27/2010	Oil	42,845	73531	2015	0.65	4	Good, COT full coating
111.	9/27/2010	Oil	57,702	104895.4	2016	0.58	5	Good, COT full coating
112.	10/5/2010	Oil	42,845	73655	2015	0.62	3	Good, COT full coating
113.	10/27/2010	Oil	64,397	114686.1	2015	0.68	1.57	Good, COT full coating
114.	2010	Oil/Chem		51745	2015	0 - 1	1	Good, COT full coating
115.	1999	Oil/Chem		51118	2014	0 - 1	1	Good, COT full coating
116.	2010	Oil		115708	2015	0 - 1	1	Good, COT full coating
117.	2011	Oil/Chem		51063	2016	1 - 5	9	Good, COT full coating
118.	2010	Oil/Chem		50213	2015	0 - 3	5	Good, COT full coating
119.	2012	Oil/Chem		51678	2017	1 - 2	2	Good, COT full coating
120.	2012	Oil/Chem		51768	2017	1 - 2	5	Good, COT full coating
121.	1999	Oil		158319	2014	0 - 2	2	Good, COT full coating
122.	2010	Oil		158489	2015	1 - 3	3	Good, COT full coating
123.	2011	Oil		158466	2016	1 - 2,5	2.6	Fair, COT full coating
124.	2012	Oil/Chem		50825	2017	0 - 3	5.5	Good, COT full coating
125.	2011	Oil/Chem		50895	2016	0 - 2	2.7	Good, COT full coating
126.	2011	Oil/Chem		50895	2016	0 - 2	2	Good, COT full coating
127.	2011	Oil/Chem		51063	2016	0 - 1,5	5.8	Good, COT full coating
128.	2011	Oil/Chem	11908	16500	2016	0 - 2	10	Good, COT full coated
129.	2009	Oil/Chem	20145	33694	2013	0 - 1	3	Good, COT not coated
130.	2013	Oil/Chem	30087	50044	2017	0 - 1	5	Good, COT full coated

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131.	2008	Oil	28056	45800	2013	0 – 2	4	Good, COT full coated
132.	2008	Oil	4374	6234	2013	0 – 2	3	Good, COT full coated
133.	2009	Oil	5036	7119	2014	0 – 2	3	Good, COT full coated
134.	2009	Oil	4419	6300	2014	0 – 2	6	Good, COT full coated
135.	2010	Oil	11253	16906	2015	0 – 1	2	Good, COT full coated
136.	2010	Oil	85496	149995	2015	0 – 0,5	1	Good, COT full coated
137.	2011	Oil	156975	297229	2016	0 – 2	6	Good, COT not coated
138.	2011	Oil	81187	159236	2016	0 – 0,2	0,3	Good, COT part coated
139.	2012	Oil	4855	6500	2017	0 – 3	11	Good, COT part coated
140.	2012	Oil	81380	158425	2017	0 – 0,3	0,6	Good, COT full coated
141.	2013	Oil	2997	4993	2015	0 – 2,5	8	Good, COT full coated
142.	2012	Oil	4825	6913	2018	0 – 1	3	Good, COT full coated
143.	2008	Oil/Chem.	25804	40471	2013	0-2	2,7	Good, COT full coating
144.	2008	Oil/Chem.	27007	45680	2013	0-1	3,6	Good, COT full coating
145.	2009	Oil/Chem.	30083	50542	2014	0-2,5	3,0	Good, COT full coating
146.	2010	Oil/Chem.	26329	46011	2015	0-2,0	2,5	Good, COT full coating
147.	2010	Oil/Chem.	12890	21224	2016	0-1	2	Good, COT full coating
148.	2010	Oil/Chem.	26329	46011	2014	0-1	1,8	Good, COT full coating
149.	2011	Oil/Chem.	7697	11596	2016	0-2	2,3	Good, COT full coating
150.	2012	Oil/Chem.	29712	45318	2016	0-1,5	2,3	Good, COT full coating
151.	2008	Oil/Chem.	29283	53148	2013	0-0,5	3,6	Good, COT full coating
152.	2011	Oil/Chem.	4766	5705	2016	0-2	3,3	Good, COT full coating
153.	2010	Oil/Chem.	13283	18561	2014	0-2	3,6	Good, COT full coating
154.	2008	Oil/Chem.	29605	44999	2013	0-2	3,0	Good, COT full coating
155.	2011	Oil/Chem.	29712	45375	2015	0-1,5	1,8	Good, COT full coating
156.	2010	Oil/Chem.	27061	44999	2014	0-1,5	3,0	Good, COT full coating
157.	2011	Oil/Chem.	12271	16900	2016	0-1,5	3,0	Good, COT full coating