

Rev.	Port no.	Field	Alteration or remark	Date	Approved by
B	Veritas	Osman	Keritis	P.m.	Munro
C				2009-07-14	Munro
D				2009-08-21	Munro
E				2009-09-03	Munro
				2010-03-04	Munro
				2010-03-04	Munro

NAPA ID = Identification name in NAPA-system  
CODE = Tank code  
DES = Tank description  
VET = Net volume, m3  
FRMIN = Lower frame limit of the tank  
FRMAX = Upper frame limit of the tank  
CGZ = Longitudinal centre of volume, m  
CGT = Transversal centre of volume, m  
CGZ = Vertical centre of volume, m  
CGT = Maximum transversal moment of inertia of liquid surface, m4  
RHD = Density of liquid, t/m3

NAPA ID	CODE	DES	VET	FRMIN	FRMAX	CGZ	CGT	CGZ	17MAY87D	th
			m3	#	#	m	m	m		

CAPACITY OF DIESEL OIL (RHD=0.86)

R020103	D01S	Diesel Oil	143.6	18	33	14.61	-3.28	2.85	173.1
R020104	D01P	Diesel Oil	171.1	18	33	15.84	2.85	2.79	127.4
R060102	D02	D02 D01	16.0	73	77	45.58	-5.45	3.30	5.1
R060103	D03	D03 D01	17.1	73	77	45.58	-2.63	3.30	6.2
R070103	D04S	Diesel Oil	125.9	77	87	49.77	-3.74	2.72	112.7
R070104	D04P	Diesel Oil	123.9	77	87	49.77	3.74	2.72	112.7
R050401	D05	EDG D01	2.1	66	67	40.50	0.30	10.70	0.3
SUBTOTAL			601.7			31.46	-0.18	2.83	537.5

CAPACITY OF LUBRICATING OIL (RHD=0.9)

R060105	L01	Lubricating Oil	12.0	73	77	45.60	4.95	2.70	0.6
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CAPACITY OF FRESH WATER (RHD=1)

R030104	F01S	Fresh Water	52.7	34	39	22.50	-3.20	2.40	65.5
R030105	F01P	Fresh Water	46.9	34	39	22.50	2.85	2.40	46.3
SUBTOTAL			99.6			22.50	-0.35	2.40	111.8

CAPACITY OF TECHNICAL WATER (RHD=1)

R060002	T01	Technical Water	5.6	66	70	41.40	0.00	0.50	2.8
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CAPACITY OF MISCELLANEOUS (RHD=1)

R030107	M1	Zero Dumping	64.8	27	33	18.29	-4.71	2.71	34.1
R050002	M2	Cooling Water Drain	4.2	63	66	39.30	0.00	0.50	2.1
R060001	M3	Treated Sewage Water	97.3	66	77	43.62	-0.00	0.51	2418.0
R060101	M4	Diverflow	18.1	73	77	45.63	-3.80	1.60	52.4
R060106	M5	Bi-lge Water Treatment	14.4	73	77	45.00	2.40	2.70	4.7
R060106	M6	Sludge	10.4	73	77	45.60	6.35	2.70	0.4
SUBTOTAL			209.2			36.03	-1.31	1.54	2311.7

CAPACITY OF BALLAST WATER (RHD=1.01)

R020001	BW1	Ballast Water	99.3	18	27	13.27	0.00	0.84	1970.6
R02001	BW2S	Ballast Water	25.6	18	27	13.50	-7.60	3.39	0.8
R020102	BW2P	Ballast Water	25.6	18	27	13.50	7.60	3.39	0.8
R030001	BW3	Ballast Water	122.0	27	39	20.10	0.00	0.51	2895.8
R030101	BW4S	Ballast Water	31.6	27	39	20.06	-7.60	2.72	1.1
R030102	BW4P	Ballast Water	31.6	27	39	20.06	7.60	2.72	1.1
R050001	BW5	Ballast Water	129.6	51	66	35.67	-0.02	0.51	3308.6
R070101	BW6S	Ballast Water	26.1	77	87	49.95	-7.49	2.61	3.3
R070102	BW6P	Ballast Water	26.1	77	87	49.95	7.49	2.61	3.3
R090001	BW8	Ballast Water	97.9	95	101	59.38	0.08	2.79	657.5
R100001	BW9	Ballast Water	36.2	101	108	62.46	0.00	3.46	135.0
SUBTOTAL			687.3			33.46	0.01	1.61	9499.9

CAPACITY OF DRY TANK (RHD=1)

R010001	DT1	Dry Tank	97.0	-0	9	2.93	0.00	3.28	1758.9
R010002	DT2	Dry Tank	122.0	9	18	8.12	0.00	2.30	1604.2
R040001	DT3	Dry Tank	170.3	39	51	27.60	0.00	1.25	2646.6
R050102	DT4S	Dry Tank	30.1	51	66	36.41	-7.60	2.76	1.3
R050101	DT4P	Dry Tank	36.0	51	66	35.70	7.60	2.70	1.3
R060107	DT5S	Dry Tank	26.4	66	77	43.50	-7.60	2.70	1.0
R060108	DT5P	Dry Tank	26.4	66	77	43.50	7.60	2.70	1.0
R072001	DT6	Dry Tank	82.9	82	95	44.69	0.00	0.51	2405.0
R080001	DT7	Dry Tank	35.6	87	95	54.98	-0.00	0.47	522.0
SUBTOTAL			596.0			25.20	0.08	1.98	8019.7

P27032 SHALLOW DRAUGHT ICEBREAKING TUG (ISBRT)  
STX BRALLA HULL NUMBER 710  
IMO NUMBER XXX

STATUS	Date From	Date To	1	2	3	4	5	6	7	8	9	10	11	12
1	2009-05-28	2009-05-28												
2	2009-05-28	2009-05-28												
3	2009-05-28	2009-05-28												
4	2009-05-28	2009-05-28												
5	2009-05-28	2009-05-28												
6	2009-05-28	2009-05-28												
7	2009-05-28	2009-05-28												
8	2009-05-28	2009-05-28												
9	2009-05-28	2009-05-28												
10	2009-05-28	2009-05-28												
11	2009-05-28	2009-05-28												
12	2009-05-28	2009-05-28												

Aker Arctic

TANK PLAN

