



# **GAS DETECTION SYSTEM**

# **SALES REFERENCE LIST**

## RIKEN KEIKI KOREA-McQuay Sales Reference Fixted Gas Detection System in China Shipbuilding From 2014 To Now

No.	Order year	Shipyard name	Hull No./Ship Name	Ship onwer Country	Ship type	Class	Ship size	Goods delivered (Y or N)	remark
1	2014	Nanjing Yonghua Shipbuilding	YHSC1309-01Y	N.T.L Thailand	Tanker	BV	3200M3	Y	Directly and scaining detection
2	2014	Nanjing Yonghua Shipbuilding	YHSC1309-02Y	N.T.L Thailand	Tanker	BV	3200M3	Y	Directly and scaining detection
3	2014	Nanjing East star Shipbuilding	ESS130205	N.T.L Thailand	Tanker	BV	3200M3	Y	Directly and scaining detection
4	2014	Nanjing East star Shipbuilding	ESS130206	N.T.L Thailand	Tanker	BV	3200M3	Y	Directly and scaining detection
5	2014	Ninbo Xinle Shipyard	XL147	ARCOIN. Holland	Chemical Tanker	RINA	19800DWT	Y	Scaining detection
6	2014	Ninbo Xinle Shipyard	XL148	ARCOIN. Holland	Chemical Tanker	RINA	19801DWT	Y	Scaining detection
7	2014	Shan Hai Guan shipyard	BC1200-1	EMPRESANAVIERAE LCANO,S.A . Spain	Bulk carrier	LR	120000DWT	Y	Scaining detection
8	2014	Shan Hai Guan shipyard	BC1200-2	EMPRESANAVIERAE LCANO,S.A . Spain	Bulk carrier	LR	120001DWT	Y	Scaining detection
9	2015	DSIC Dalian shipyard	P55K-1	IMC. Singapore	Product Tanker	LR	55000DWT	Y	Directly fixted O2 detection for IGG room onli
10	2015	DSIC Dalian shipyard	P55K-2	IMC. Singapore	Product Tanker	LR	55000DWT	Y	Directly fixted O2 detection for IGG room onli
11	2015	DSIC Dalian shipyard	P55K-3	IMC. Singapore	Product Tanker	LR	55000DWT	Y	Directly fixted O2 detection for IGG room onli
12	2015	DSIC Dalian shipyard	P55K-4	IMC. Singapore	Product Tanker	LR	55000DWT	Y	Directly fixted O2 detection for IGG room onli
13	2015	Shanghai Waigaoqiao shipyard	H1392	Westgate. Greece	Crude Oil Tanker	BV	157000DWT	N	Directly and scaining detection
14	2015	Shanghai Waigaoqiao shipyard	H1393	Westgate. Greece	Crude Oil Tanker	BV	157000DWT	N	Directly and scaining detection
15	2015	Shanghai Waigaoqiao shipyard	H1394	Westgate. Greece	Crude Oil Tanker	BV	157000DWT	N	Directly and scaining detection
16	2015	Shanghai Waigaoqiao shipyard	H1303	Cardiff. Greece	Crude Oil Tanker	BV	157000DWT	N	Directly and scaining detection
17	2015	Shanghai Waigaoqiao shipyard	H1304	Cardiff. Greece	Crude Oil Tanker	BV	157000DWT	N	Directly and scaining detection
18	2015	Shanghai Waigaoqiao shipyard	H1321	Cardiff. Greece	Crude Oil Tanker	BV	157000DWT	N	Directly and scaining detection
19	2015	DSIC Dalian shipyard	P110K-41	Cara Shipping (Rizhao steel) . Singapore	Crude Oil Tanker	CCS	113000DWT	N	Directly and scaining detection
20	2015	DSIC Dalian shipyard	P110K-42	Cara Shipping (Rizhao steel) . Singapore	Crude Oil Tanker	CCS	113000DWT	N	Directly and scaining detection
21	2015	BASIC (Qingdao Beihai ) shipyard	TK11.3-1	Cara Shipping (Rizhao steel) . Singapore	Crude Oil Tanker	CCS	113000DWT	N	Directly and scaining detection
22	2015	BASIC (Qingdao Beihai ) shipyard	TK11.3-2	Cara Shipping (Rizhao steel) . Singapore	Crude Oil Tanker	CCS	113000DWT	N	Directly and scaining detection
23	2015	China shipping industry shipyard	CIS158K-1	MMS.Greece	Crude Oil Tanker	LR	158000DWT	N	Directly and scaining detection
24	2015	China shipping industry shipyard	CIS158K-2	MMS.Greece	Crude Oil Tanker	LR	158000DWT	N	Directly and scaining detection

25	2015	China shipping industry shipyard	CIS114K-1	MMS.Greece	Crude Oil Tanker	LR	157000DWT	N	Directly and scaining detection
26	2015	China shipping industry shipyard	CIS114K-2	MMS.Greece	Crude Oil Tanker	LR	157000DWT	N	Directly and scaining detection
27	2015	Nanjing Zhijingshan shipyard		SIMOSA.TAIWAN	Asphalt carrier	NK	7500DWT	N	Directly and scaining detection
28	2015	Shanghai Hudong shipyard	H1670A	Unknew	LNG	LR	172000m3	N	Directly fixted HC detection for GYM room or
29	2015	Shanghai Hudong shipyard	H1671A	Unknew	LNG	LR	172000m3	N	Directly fixted HC detection for GYM room or
30	2015	Shanghai Hudong shipyard	H1672A	Unknew	LNG	LR	172000m3	N	Directly fixted HC detection for GYM room or
31	2015	Shanghai Hudong shipyard	H1673A	Unknew	LNG	LR	172000m3	N	Directly fixted HC detection for GYM room or
32	2015	Samsung (Ningbo) shipyard	SHA115	MAERSK. Danmark	Product Tanker	LR	50000DWT	N	Scaining detection
33	2015	Samsung (Ningbo) shipyard	SHA116	MAERSK. Danmark	Product Tanker	LR	50000DWT	N	Scaining detection
34	2015	Samsung (Ningbo) shipyard	SHA117	MAERSK. Danmark	Product Tanker	LR	50000DWT	N	Scaining detection
35	2015	Samsung (Ningbo) shipyard	SHA118	MAERSK. Danmark	Product Tanker	LR	50000DWT	N	Scaining detection
36	2015	Samsung (Ningbo) shipyard	SHA119	MAERSK. Danmark	Product Tanker	LR	50000DWT	N	Scaining detection
37	2015	Samsung (Ningbo) shipyard	SHA120	MAERSK. Danmark	Product Tanker	LR	50000DWT	N	Scaining detection
38	2015	Samsung (Ningbo) shipyard	SHA121	MAERSK. Danmark	Product Tanker	LR	50000DWT	N	Scaining detection
39	2015	Samsung (Ningbo) shipyard	SHA122	MAERSK. Danmark	Product Tanker	LR	50000DWT	N	Scaining detection
40	2015	Samsung (Ningbo) shipyard	SHA123	MAERSK. Danmark	Product Tanker	LR	50000DWT	N	Scaining detection
41	2016	China shipping industry shipyard	CIS158K-4	MMS.Greece	Crude Oil Tanker	LR	158000DWT	N	Directly and scaining detection
42	2016	China shipping industry shipyard	CIS114K-4	MMS.Greece	Crude Oil Tanker	LR	158000DWT	N	Directly and scaining detection
43	2016	Dalian Cosoco Shipyard	N720	Chandris.Greece	Crude Oil Tanker	LR	113000DWT	N	Directly and scaining detection
44	2016	Dalian Cosoco Shipyard	N701	Chandris.Greece	Crude Oil Tanker	LR	113001DWT	N	Directly and scaining detection
45	2016	Jangsu islands shipyard	JISI5001T	MBC Korea 马峰	Sulfhur tanker	KR	4990DWT	N	scaining detection
46	2016	NACKS	NE242	China Merchant group 招商局. CHINA	Crude Oil Tanker	LR	308000DWT	N	scaining detection
47	2016	NACKS	NE243	China Merchant group 招商局. CHINA	Crude Oil Tanker	LR	308000DWT	N	scaining detection
48	2016	DACKS	DE042	China Merchant group 招商局. CHINA	Crude Oil Tanker	LR	308000DWT	N	scaining detection
49	2016	DACKS	DE044	China Merchant group 招商局. CHINA	Crude Oil Tanker	LR	308000DWT	N	scaining detection
50	2016	Yangzhijiang River shipyard	YZJ2015-1222	Klaveness AS. Norway	Clean Bulk	DNV	83000DWT	N	scaining detection
51	2016	Yangzhijiang River shipyard	YZJ2015-1223	Klaveness AS. Norway	Clean Bulk	DNV	83000DWT	N	scaining detection
52	2016	Yangzhijiang River shipyard	YZJ2015-1224	Klaveness AS. Norway	Clean Bulk	DNV	83000DWT	N	scaining detection
53	2016	Shanghai Waigaoqiao shipyard	H1352	Cardiff. Greece	Crude Oil Tanker	BV	157000DWT	N	scaining detection
54	2016								

Sales reference of Gas detection system for Special ships

No.	Hull No.	Owner Name	Vessel	Ship Type	Remark
1	H1440	NYK/MOL	LNG	145,000m3	Samsung ShipYard
2	H1441	NYK/MOL	LNG	145,000m3	
3	H1442	NYK/MOL	LNG	145,000m3	
4	H1536	LAGAS	LNG	145,000m3	
5	H1573	LAGAS	LNG	145,000m3	
6	H1594	NYK/MOL	LNG	145,000m3	
7	H1563	LAGAS	LNG	145,000m3	
8	H1564	LAGAS	LNG	145,000m3	
9	H1619	Lasgas II K line	LNG	153K DF LNG	
10	H1620	Lasgas II K line	LNG	153K DF LNG	
11	H1634	Lasgas II K line	LNG	153K DF LNG	
12	H1686	ILTC	LNG	155 DF-EP LNG	
13	H1761	FLEX	LNG FPSO	220,000m3	
14	H1762	FLEX	LNG FPSO	220,000m3	
15	H1839	FLEX	LNG FPSO	220,000m3	
16	H1850	FLEX	LNG FPSO	220,000m3	
17	H1534	COROCORO	FSO	1,300,000bbls	
18	H1951	TEEKAY	FPSO	800,000 bbls FPSO	
19	H1579	MODEC	FPSO	150K	
20	H2221	BERGESEN	LNG	145,000m3	DSME(DaeWoo)
21	H2222	BERGESEN	LNG	145,000m3	
22	H2223	BERGESEN	LNG	145,000m3	
23	H2224	BERGESEN	LNG	145,000m3	
24	H2227	Kristin	LNG	145,000m3	
25	H2228	Kristin	LNG	145,000m3	
26	H2235	Maran gas	LNG	145,000m3	
27	H2243	Maran gas	LNG	145,000m3	
28	H2273	Brunei	LNG	147,000m3	
29	H2277	Brunei	LNG	147,000m3	
30	H2288	Maran gas	LNG	159,800m3	
31	H2291	Maran gas	LNG	159,800m3	
32	H2292	Maran gas	LNG	159,800m3	
33	H2295	Maran gas	LNG	159,800m3	
34	H2296	Maran gas	LNG	159,800m3	
35	H2405	Maran gas	LNG	159,800m3	
36	H2406	Maran gas	LNG	159,800m3	
37	H2402	EXELERATE	LNG RV	173,400CBM	
38	H5903	Transocean	Drill Ship	35,000 MT	
39	H5904	Transocean	Drill Ship	35,000 MT	
40	H5905	Transocean	Drill Ship	35,000 MT	
41	H5908	Transocean	Drill Ship	35,000 MT	

Sales reference of Gas detection system for Special ships

No.	Hull No.	Owner Name	Vessel	Ship Type	Remark
42	2584	OMAN	LNG	162,000CBM	HHI
43	2606	BRUNEI	LNG	155,000CBM	
44	2607	BRUNEI	LNG	155,000CBM	
45	S624	Maran gas	LNG	164,000CBM	HYUNDAI SAMHO HEAVY INDUSTRIES Co.,Ltd
46	S625	Maran gas	LNG	164,000CBM	
47	S626	Maran gas	LNG	164,000CBM	
48	S627	Maran gas	LNG	164,000CBM	
49	S688	Maran gas	LNG	174,000CBM	
50	S689	Maran gas	LNG	174,000CBM	
51	S690	Maran gas	LNG	174,000CBM	
52	S691	Maran gas	LNG	174,000CBM	
53	S734	Maran gas	LNG	174,000CBM	
54	S735	Maran gas	LNG	174,000CBM	
55	N192	KOGAS	LNG	153,000m3	HANJIN HEAVY INDUSTRIES CO.,LTD
56	S067	GULMAR	DIVE SHIP	MT6022	
57	S068	GULMAR	DIVE SHIP	MT6022	
58	S1670	ALPHA TANKER	LNG	162,000CBM	STX
59	S1671	ALPHA TANKER	LNG	155,000CBM	

## Sales reference of Gas detection system for Hyundai Heavy Industries

No.	Hull No.	Owner Name	Vessel	Ship Type	REMARK
1	1325	Besiktas	Crude Oil	165,000 DWT	
2	1360	Ditas	Crude Oil	165,000 DWT	
3	1371	NOL	Crude Oil	318,000 DWT	
4	1372	NOL	Crude Oil	318,000 DWT	
5	1394	NOL	Crude Oil	318,000 DWT	
6	1395	NOL	Crude Oil	318,000 DWT	
7	1401	SCI	Crude Oil	114,000 DWT	
8	1402	SCI	Crude Oil	114,000 DWT	
9	1403	SCI	Crude Oil	114,000 DWT	
10	1404	SCI	Crude Oil	114,000 DWT	
11	1462	Enterprise Co	Crude Oil	70,000 DWT	
12	1463	Enterprise Co	Crude Oil	70,000 DWT	
13	1466	Novaship	Crude Oil	115,000 DWT	
14	1467	Novaship	Crude Oil	115,000 DWT	
15	1495	Alpha	Crude Oil	159,000 DWT	
16	1496	Alpha	Crude Oil	159,000 DWT	
17	1497	Alpha	Crude Oil	159,000 DWT	
18	1509	Torm	Product Carrier	74,900 DWT	
19	1510	Torm	Product Carrier	74,900 DWT	
20	1511	Torm	Product Carrier	74,900 DWT	
21	1512	Torm	Product Carrier	74,900 DWT	
22	1513	Torm	Product Carrier	74,900 DWT	
23	1514	Torm	Product Carrier	74,900 DWT	
24	1515	Torm	Product Carrier	74,900 DWT	
25	1516	Torm	Product Carrier	74,900 DWT	
26	1517	Torm	Product Carrier	74,900 DWT	
27	1518	Torm	Product Carrier	74,900 DWT	
28	1519	Torm	Product Carrier	74,900 DWT	
29	1520	Torm	Product Carrier	74,900 DWT	
30	1537	Mol	Crude Oil	105,000 DWT	
31	1538	Mol	Crude Oil	105,000 DWT	
32	1539	Mol	Crude Oil	105,000 DWT	
33	1553	Itochu	Crude Oil	319,000 DWT	
34	1555	Tenamaris	Crude Oil	105,000 DWT	
35	1560	Besiktas	Crude Oil	165,000 DWT	
36	1561	Besiktas	Crude Oil	165,000 DWT	
37	1599	Primosk	Crude Oil	100,000 DWT	
38	1600	Primosk	Crude Oil	100,000 DWT	
39	1601	Primosk	Crude Oil	100,000 DWT	
40	1602	Sovcom	Crude Oil	100,000 DWT	
41	1603	Sovcom	Crude Oil	100,000 DWT	



## Sales reference of Gas detection system for Hyundai Heavy Industries

No.	Hull No.	Owner Name	Vessel	Ship Type	REMARK
42	1604	SCI	Crude Oil	300,000 DWT	
43	1605	SCI	Crude Oil	300,000 DWT	
44	1610	Itochu	Crude Oil	319,000 DWT	
45	1611	ENOC	Crude Oil	74,900 DWT	
46	1612	ENOC	Crude Oil	74,900 DWT	
47	1613	ENOC	Crude Oil	74,900 DWT	
48	1614	ENOC	Crude Oil	74,900 DWT	
49	1617	Tsakos	Crude Oil	164,000 DWT	
50	1618	Tsakos	Crude Oil	164,000 DWT	
51	1619	Tsakos	Crude Oil	164,000 DWT	
52	1620	Tsakos	Crude Oil	164,000 DWT	
53	1621	STENA	Crude Oil	116,000 DWT	
54	1628	Novaship	Crude Oil	105,000 DWT	
55	1629	Novaship	Crude Oil	105,000 DWT	
56	1635	Novaship	Crude Oil	105,000 DWT	
57	1636	Novaship	Crude Oil	105,000 DWT	
60	1637	Hyundai	Crude Oil	309,000 DWT	
61	1638	Hyundai	Crude Oil	309,000 DWT	
62	1641	QATAR SHIP	Crude Oil	105,000 DWT	
63	1642	QATAR SHIP	Crude Oil	105,000 DWT	
64	1688	Novaship	Crude Oil	105,000 DWT	
65	1689	Novaship	Crude Oil	105,000 DWT	
66	1702	INTERORIENT	Crude Oil	116,000 DWT	
67	1703	INTERORIENT	Crude Oil	116,000 DWT	
68	1708	Tsakos	Crude Oil	164,000 DWT	
69	1709	Tsakos	Crude Oil	164,000 DWT	
70	1712	Novaship	Crude Oil	105,000 DWT	
71	1713	Novaship	Crude Oil	105,000 DWT	
72	1737	PRISCO	Crude Oil	166,000 DWT	
73	1738	PRISCO	Crude Oil	166,000 DWT	
74	1749	GREAT NORTH	SHUTTLE	109,000 DWT	
75	1750	GREAT NORTH	SHUTTLE	109,000 DWT	
76	1764	GREAT WEST	Crude Oil	157,000 DWT	
77	1765	GREAT WEST	Crude Oil	157,000 DWT	
78	1770	GREAT WEST	Crude Oil	157,000 DWT	
79	1782	FRATELLI	Crude Oil	158,000 DWT	
80	1783	FRATELLI	Crude Oil	158,000 DWT	
81	1784	FRATELLI	Crude Oil	158,000 DWT	
82	1785	FRATELLI	Crude Oil	158,000 DWT	
83	1796	Novaship	Crude Oil	105,000 DWT	
84	1797	Novaship	Crude Oil	105,000 DWT	

## Sales reference of Gas detection system for Hyundai Heavy Industries

No.	Hull No.	Owner Name	Vessel	Ship Type	REMARK
85	1854	PRISCO	Crude Oil	104,000 DWT	
86	1855	PRISCO	Crude Oil	104,000 DWT	
87	1864	NITC	Crude Oil	317,000 DWT	
88	1865	NITC	Crude Oil	317,000 DWT	
89	1873	PRISCO	Crude Oil	104,000 DWT	
90	1874	PRISCO	Crude Oil	104,000 DWT	
91	1877	NITC	Crude Oil	317,000 DWT	
92	1921	Dynacom Tankers	Crude Oil	318,000 DWT	
93	1922	Dynacom Tankers	Crude Oil	318,000 DWT	
94	1925	EURONAV	Crude Oil	318,000 DWT	
95	1926	EURONAV	Crude Oil	318,000 DWT	
96	1929	PHOENIX	Crude Oil	105,000 DWT	
97	1930	PHOENIX	Crude Oil	105,000 DWT	
98	1932	ALPHA TANKER	Crude Oil	318,000 DWT	
99	1933	ALPHA TANKER	Crude Oil	318,000 DWT	
100	1936	Dynacom Tankers	Crude Oil	318,000 DWT	
101	1937	Dynacom Tankers	Crude Oil	318,000 DWT	
102	1958	ALPHA TANKER	Crude Oil	158,000 DWT	
103	1959	ALPHA TANKER	Crude Oil	158,000 DWT	
104	1960	ALPHA TANKER	Crude Oil	158,000 DWT	
105	1963	SK	Crude Oil	318,000 DWT	
106	1964	SK	Crude Oil	318,000 DWT	
107	1978	ALPHA TANKER	Crude Oil	158,000 DWT	
108	1979	ALPHA TANKER	Crude Oil	158,000 DWT	
109	1988	SK	Crude Oil	105,000 DWT	
110	1989	SK	Crude Oil	105,000 DWT	
111	2000	METROSTAR	Crude Oil	318,000	
112	2001	METROSTAR	Crude Oil	318,000	
113	2006	ALPHA TANKER	Crude Oil	158,000 DWT	
114	2008	HAMWORTHY	LPG	82,000CBM	
115	2011	Novaship	PRODUCT Carrier	112,000 DWT	
116	2012	Novaship	PRODUCT Carrier	112,000 DWT	
117	2013	Novaship	PRODUCT Carrier	112,000 DWT	
118	2014	Novaship	PRODUCT Carrier	112,000 DWT	
119	2015	SK	Crude Oil	318,000 DWT	
120	2016	SK	Crude Oil	318,000 DWT	
121	2021	ALPHA TANKER	Crude Oil	158,000 DWT	
122	2022	Kristenn	Crude Oil	105,000 DWT	
123	2023	Kristenn	Crude Oil	105,000 DWT	
124	2024	SK	Crude Oil	318,000 DWT	
125	2025	PRISCO	Crude Oil	104,000 DWT	



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No.	Hull No.	Owner Name	Vessel	Ship Type	REMARK
126	2026	PRISCO	Crude Oil	104,000 DWT	
127	2033	SK	Crude Oil	318,000 DWT	
128	2034	SK	Crude Oil	318,000 DWT	
129	2114	T/K,ST shipping	Crude Oil	105,000 DWT	
130	2115	T/K,ST shipping	Crude Oil	105,000 DWT	
131	2211	ADNOC/UAE	CLASS PRODUCT	105,000 DWT	
132	2212	ADNOC/UAE	CLASS PRODUCT	105,000 DWT	
133	2247	Oman Shipping	Crude Oil	317,000 DWT	
134	2248	Oman Shipping	Crude Oil	317,000 DWT	
135	2249	Oman Shipping	Crude Oil	317,000 DWT	
136	2250	Oman Shipping	Crude Oil	317,000 DWT	
137	2251	Oman Shipping	Crude Oil	317,000 DWT	
138	2288	Polyar Shipping	VLCC	318,000 DWT	
139	2289	Polyar Shipping	VLCC	318,000 DWT	
140	2290	SK	VLCC	317,000 DWT	
141	2291	SK	VLCC	317,000 DWT	
142	2292	SK	VLCC	317,000 DWT	
143	2293	SK	VLCC	317,000 DWT	
144	2376	Phoenix energy	Crude Oil	105,000 DWT	
145	2377	Phoenix energy	Crude Oil	105,000 DWT	
146	2378	Phoenix energy	Crude Oil	105,000 DWT	
147	2417	Great Eastern	Crude Oil	318,000 DWT	
148	2418	Great Eastern	Crude Oil	318,000 DWT	
149	2419	Great Eastern	Crude Oil	318,000 DWT	
150	2438	Diamond S	PRODUCT Carrier	105,000 DWT	
151	2439	Diamond S	PRODUCT Carrier	105,000 DWT	
152	2440	Diamond S	Crude Oil	158,000 DWT	
153	2441	Diamond S	Crude Oil	158,000 DWT	
154	2456	Seaarland	Crude Oil	318,000 DWT	
155	2458		Crude Oil	321,000 DWT	
156	2459		Crude Oil	321,000 DWT	
157	2462	Dynacom Tankers	Crude Oil	158,000 DWT	
158	2463	Dynacom Tankers	Crude Oil	158,000 DWT	
159	2468	Diamond S	Crude Oil	158,000 DWT	
160	2469	Diamond S	Crude Oil	158,000 DWT	
161	2476	Densa Denizcilik	Crude Oil	158,000 DWT	
162	2477	Densa Denizcilik	Crude Oil	158,000 DWT	
163	2493	Mitsubishi Corp.	PRODUCT Carrier	105,000 DWT	
164	2520	Seaarland	Crude Oil	318,000 DWT	
165	2568	SK SHIPPING	Crude Oil	321,000 DWT	
166	2569	SK SHIPPING	Crude Oil	321,000 DWT	

Sales reference of Gas detection system for Hyundai Heavy Industries

No.	Hull No.	Owner Name	Vessel	Ship Type	REMARK
167	2570	SK SHIPPING	Crude Oil	321,000 DWT	
168	2496	SK SHIPPING	LPG	82,000CBM	HAMWORTHY
169	2515	SK SHIPPING	LPG	82,000CBM	HAMWORTHY
170	2581	SK SHIPPING	LPG	82,000CBM	HAMWORTHY
171	2598	Densa Denizcilik	Crude Oil	106,000DWG	
172	2516	SOLVANG	LPG	84,000CBM	HAMWORTHY
173	2517	SOLVANG	LPG	84,000CBM	HAMWORTHY
174	2576	PERTAMINA	LPG	84,000CBM	HAMWORTHY
175	2577	PERTAMINA	LPG	84,000CBM	HAMWORTHY
176	2632	KSS	LPG	84,000CBM	HAMWORTHY
177	2683	Densa Denizcilik	Crude Oil	106,000DWG	
178	2694	KSS	LPG	84,000CBM	HAMWORTHY
179	2656	DORIAN	LPG	82,000CBM	LGE
180	2657	DORIAN	LPG	82,000CBM	LGE
181	2658	DORIAN	LPG	82,000CBM	LGE
182	2725	METROSTAR	Crude Oil	300,000DWT	
183	2726	METROSTAR	Crude Oil	300,000DWT	
184	2727	METROSTAR	Crude Oil	300,000DWT	
185	2728	METROSTAR	Crude Oil	300,000DWT	

Sales reference of Gas detection system for Hyundai Samho Heavy Industries

No.	Hull No.	Owner Name	Vessel	Ship Type	REMARK
1	S182	INTRIGUE SHIP	Crude Oil	115,000 DWT	
2	S183	INTRIGUE SHIP	Crude Oil	115,000 DWT	
3	S203	GLOBAL SEAC	Crude Oil	319,000 DWT	
4	S204	GLOBAL SEAC	Crude Oil	319,000 DWT	
5	S214	CAPRICORN	Crude Oil	319,000 DWT	
6	S215	CAPRICORN	Crude Oil	319,000 DWT	
7	S218	BEAM COMP.	Crude Oil	113,000 DWT	
8	S219	BEAM COMP.	Crude Oil	113,000 DWT	
9	S222	NOL	Crude Oil	318,000 DWT	
10	S236	GESCO	Crude Oil	159,000 DWT	
11	S237	GESCO	Crude Oil	159,000 DWT	
12	S248	MARMARAS	Crude Oil	164,000 DWT	
13	S249	MARMARAS	Crude Oil	164,000 DWT	
14	S250	MARMARAS	Crude Oil	164,000 DWT	
15	S251	QATAR SHIP	Crude Oil	105,000 DWT	
16	S252	QATAR SHIP	Crude Oil	105,000 DWT	
17	S267	MARMARAS	Crude Oil	164,000 DWT	
18	S268	MARMARAS	Crude Oil	164,000 DWT	
19	S273	Samco	O2 monitoring	318,000 DWT	
20	S274	Samco	O2 monitoring	318,000 DWT	
21	S275	Samco	O2 monitoring	318,000 DWT	
22	S278	GLOBAL SEAC	Crude Oil	319,000 DWT	
23	S282	LIQUIMAR	Crude Oil	318,000 DWT	
24	S283	LIQUIMAR	Crude Oil	318,000 DWT	
25	S300	NSCSA	Crude Oil	318,000 DWT	
26	S301	NSCSA	Crude Oil	318,000 DWT	
27	S302	QSC	Crude Oil	105,000 DWT	
28	S303	QSC	Crude Oil	105,000 DWT	
29	S304	Novoship	Crude Oil	105,000 DWT	
30	S305	Novoship	Crude Oil	105,000 DWT	
31	S314	NITC	Crude Oil	317,000 DWT	
32	S315	NITC	Crude Oil	317,000 DWT	
33	S316	NITC	Crude Oil	164,000 DWT	
34	S317	NITC	Crude Oil	164,000 DWT	
35	S318	NITC	Crude Oil	164,000 DWT	
36	S319	NITC	Crude Oil	164,000 DWT	
37	S335	NSCSA	Crude Oil	318,000 DWT	
38	S336	NSCSA	Crude Oil	318,000 DWT	
39	S337	NSCSA	Crude Oil	318,000 DWT	
40	S338	NSCSA	Crude Oil	318,000 DWT	
41	S339	NSCSA	Crude Oil	318,000 DWT	

Sales reference of Gas detection system for Hyundai Samho Heavy Industries

No.	Hull No.	Owner Name	Vessel	Ship Type	REMARK
42	S340	NSCSA	Crude Oil	318,000 DWT	
43	S353	MARMARAS	Crude Oil	164,000 DWT	
44	S354	MARMARAS	Crude Oil	164,000 DWT	
45	S358	MARMARAS	Crude Oil	164,000 DWT	
46	S359	MARMARAS	Crude Oil	164,000 DWT	
47	S360	LIQUIMAR	Crude Oil	318,000 DWT	
48	S361	LIQUIMAR	Crude Oil	318,000 DWT	
49	S362	LIQUIMAR	Crude Oil	318,000 DWT	
50	S367	METROSTAR	Crude Oil	317,000 DWT	
51	S368	METROSTAR	Crude Oil	317,000 DWT	
52	S369	METROSTAR	Crude Oil	317,000 DWT	
53	S370	MARMARAS	Crude Oil	164,000 DWT	
54	S377	SK	Crude Oil	318,000 DWT	
55	S378	SK	Crude Oil	318,000 DWT	
56	S384	TMT	Crude Oil	108,000 DWT	
57	S385	TMT	Crude Oil	108,000 DWT	
60	S388	MARMARAS	Crude Oil	164,000 DWT	
61	S389	MARMARAS	Crude Oil	164,000 DWT	
62	S390	METROSTAR	Crude Oil	318,000 DWT	
63	S391	METROSTAR	Crude Oil	318,000 DWT	
64	S431	METROSTAR	Crude Oil	322,000 DWT	
65	S423	LIQUIMAR	Crude Oil	322,000 DWT	
66	S430	METROSTAR	Crude Oil	322,000 DWT	
67	S440	MARMARAS	Crude Oil	164,000 DWT	
68	S441	MARMARAS	Crude Oil	164,000 DWT	
69	S442	MARMARAS	Crude Oil	164,000 DWT	
70	S455	MARMARAS	Crude Oil	164,000 DWT	
71	S473	TMT	VLCC	318,000 DWT	
72	S474	TMT	VLCC	318,000 DWT	
73	S485	Alpha Tankers	Crude Oil	105,000 DWT	
74	S486	Alpha Tankers	Crude Oil	105,000 DWT	
75	S570	Goulandris	Crude Oil	165,000 DWT	
76	S571	Goulandris	Crude Oil	165,000 DWT	

Sales reference of Gas detection system for Hyundai Mipo Dockyard

No.	Hull No.	Owner Name	Vessel	Ship Type	REMARK
1	8121	EXMAR	LPG	38,000CBM	HAMWORTHY
2	8122	EXMAR	LPG	38,000CBM	HAMWORTHY
3	8123	EXMAR	LPG	38,000CBM	HAMWORTHY
4	8124	EXMAR	LPG	38,000CBM	HAMWORTHY
5	2511	NAVIG8	Product Carrier	37,000 DWT	
6	2512	NAVIG8	Product Carrier	37,000 DWT	
7	2513	NAVIG8	Product Carrier	37,000 DWT	
8	2514	NAVIG8	Product Carrier	37,000 DWT	
9	2515	NAVIG8	Product Carrier	37,000 DWT	
10	2516	NAVIG8	Product Carrier	37,000 DWT	
11	2517	NAVIG8	Product Carrier	37,000 DWT	
12	2518	NAVIG8	Product Carrier	37,000 DWT	
13	2519	NAVIG8	Product Carrier	37,000 DWT	
14	2520	NAVIG8	Product Carrier	37,000 DWT	
15	2521	NAVIG8	Product Carrier	37,000 DWT	
16	2522	NAVIG8	Product Carrier	37,000 DWT	

## Sales reference of Gas detection system for Samsung Heavy Industries

No.	Hull No.	Owner Name	Vessel	Ship Type	REMARK
1	H1413	SK shipping	VLCC	299,000 DWT	
2	H1414	SK shipping	VLCC	299,000 DWT	
3	H1415	SK shipping	VLCC	299,000 DWT	
4	H1449	PCL	Product Carrier	73,000 DWT	
5	H1450	PCL	Product Carrier	73,000 DWT	
6	H1451	PCL	Product Carrier	73,000 DWT	
7	H1467	SCORPIO CO	Crude Oil	115,000 DWT	
8	H1468	SCORPIO CO	Crude Oil	115,000 DWT	
9	H1469	PCL	Product Carrier	73,000 DWT	
10	H1471	MISC	Crude Oil	105,500 DWT	
11	H1472	MISC	Crude Oil	105,500 DWT	
12	H1479	PCL	Product Carrier	73,000 DWT	
13	H1486	EUROCE ANICA	Crude Oil	73,000 DWT	
14	H1487	EUROCE ANICA	Crude Oil	73,000 DWT	
15	H1515	AET	VLCC	308,000 DWT	
16	H1516	AET	VLCC	308,000 DWT	
17	H1517	MISC	Crude Oil	105,500 DWT	
18	H1518	MISC	Crude Oil	105,500 DWT	
19	H1521	PCL	Product Carrier	73,000 DWT	
20	H1522	PCL	Product Carrier	73,000 DWT	
21	H1534	COROCORO	FSO	1,300,000bbls	
22	H1571	Viken	Crude Oil	113,500DWT	
23	H1572	Viken	Crude Oil	113,500DWT	
24	H1575	PREMUDA	Crude Oil	113,500DWT	
25	H1576	PREMUDA	Crude Oil	113,500DWT	
26	H1579	MODEC	FPSO	150,000DWT	
27	H1592	Geden	Crude Oil	113,500 DWT	
28	H1593	Geden	Crude Oil	113,500 DWT	
29	H1603	Geden	Crude Oil	113,500 DWT	
30	H1604	Geden	Crude Oil	113,500 DWT	
31	H1609	ACARDIA	Crude Oil	153,000 DWT	
32	H1610	ACARDIA	Crude Oil	153,000 DWT	
33	H1615	NOVOSHIP	Crude Oil	115,000 DWT	
34	H1616	NOVOSHIP	Crude Oil	115,000 DWT	
35	H1617	NOVOSHIP	Crude Oil	115,000 DWT	
36	H1618	NOVOSHIP	Crude Oil	115,000 DWT	
37	H1629	Geden	Crude Oil	113,500 DWT	
38	H1630	Geden	Crude Oil	113,500 DWT	
39	H1631	ACARDIA	Crude Oil	153,000 DWT	
40	H1635	Geden	Crude Oil	113,500 DWT	
41	H1636	Geden	Crude Oil	113,500 DWT	



## Sales reference of Gas detection system for Samsung Heavy Industries

No.	Hull No.	Owner Name	Vessel	Ship Type	REMARK
42	H1647	NITC	Crude Oil	317,000 DWT	
43	H1648	NITC	Crude Oil	317,000 DWT	
44	H1649	NITC	Crude Oil	317,000 DWT	
45	H1658	Geden	Crude Oil	113,500 DWT	
46	H1659	Geden	Crude Oil	113,500 DWT	
47	H1660	SOVCOMFLOT	Crude Oil	70,000 DWT	
48	H1661	SOVCOMFLOT	Crude Oil	70,000 DWT	
49	H1662	SOVCOMFLOT	Crude Oil	70,000 DWT	
50	H1678	Geden	Crude Oil	113,500 DWT	
51	H1679	Geden	Crude Oil	113,500 DWT	
52	H1680	TEEKAY	Crude Oil	159,000 DWT	
53	H1681	TEEKAY	Crude Oil	159,000 DWT	
54	H1682	GEDEN	Crude Oil	113,500 DWT	
55	H1683	GEDEN	Crude Oil	113,500 DWT	
56	H1717	TEEKAY	Crude Oil	159,000 DWT	
57	H1718	TEEKAY	Crude Oil	159,000 DWT	
60	H1723	CHANDRIS	Crude Oil	158,000 DWT	
61	H1724	CHANDRIS	Crude Oil	158,000 DWT	
62	H1737	PREMUDA	Product Carrier	114,700 DWT	
63	H1738	PREMUDA	Product Carrier	114,700 DWT	
64	H1739	GEDEN	Crude Oil	113,500 DWT	
65	H1740	GEDEN	Crude Oil	113,500 DWT	
66	H1741	GEDEN	Crude Oil	113,500 DWT	
67	H1742	GEDEN	Crude Oil	113,500 DWT	
68	H1748	PREMUDA	Product Carrier	114,700 DWT	
69	H1757	GEDEN	Crude Oil	113,500 DWT	
70	H1758	GEDEN	Crude Oil	113,500 DWT	
71	H1759	ANDROMEDA	Product Carrier	114,700 DWT	
72	H1760	ANDROMEDA	Product Carrier	114,700 DWT	
73	H1764	YASA	Product Carrier	157,700 DWT	
74	H1765	YASA	Product Carrier	157,700 DWT	
75	H1767	YASA	Product Carrier	157,700 DWT	
76	H1768	YASA	Product Carrier	157,700 DWT	
77	H1770	YASA	Product Carrier	157,700 DWT	
78	H1780	GEDEN	Crude Oil	113,500 DWT	
79	H1781	GEDEN	Crude Oil	113,500 DWT	
80	H1782	D'AMICO	Crude Oil	158,000 DWT	
81	H1783	D'AMICO	Crude Oil	158,000 DWT	
82	H1784	D'AMICO	Crude Oil	158,000 DWT	
83	H1785	D'AMICO	Crude Oil	158,000 DWT	
84	H1802	YASA	Product Carrier	157,700 DWT	

## Sales reference of Gas detection system for Samsung Heavy Industries

No.	Hull No.	Owner Name	Vessel	Ship Type	REMARK
85	H1803	YASA	Product Carrier	157,700 DWT	
86	H1804	GEDEN	Crude Oil	115,000 DWT	
87	H1805	GEDEN	Crude Oil	115,000 DWT	
88	H1806	GEDEN	Crude Oil	115,000 DWT	
89	H1833	GARDIFF	Crude Oil	115,000 DWT	
90	H1834	GARDIFF	Crude Oil	115,000 DWT	
91	H1835	YASA	Crude Oil	115,000 DWT	
92	H1836	YASA	Crude Oil	115,000 DWT	
93	H1848	ANDROMEDA	Product Carrier	114,700 DWT	
94	H1849	ANDROMEDA	Product Carrier	114,700 DWT	
95	H1871	GEDEN	Crude Oil	318,000 DWT	
96	H1872	GEDEN	Crude Oil	318,000 DWT	
97	H1873	GEDEN	Crude Oil	318,000 DWT	
98	H1873	GARDIFF	Crude Oil	115,000 DWT	
99	H1874	GARDIFF	Crude Oil	115,000 DWT	
100	H1885	GARDIFF	Crude Oil	115,000 DWT	
101	H1886	GARDIFF	Crude Oil	115,000 DWT	
102	H1887	GARDIFF	Crude Oil	115,000 DWT	
103	H1888	GARDIFF	Crude Oil	115,000 DWT	
104	H1889	GARDIFF	Crude Oil	115,000 DWT	
105	H1890	GARDIFF	Crude Oil	115,000 DWT	
106	H1894	EURONAV	Crude Oil	318,000 DWT	
107	H1896	Chandris	Crude Oil	318,000 DWT	
108	H1897	Chandris	Crude Oil	318,000 DWT	
109	H1900	PREMUDA	Product Carrier	114,700 DWT	
110	H1901	Geden	Crude Oil	115,000 DWT	
111	H1902	Geden	Crude Oil	115,000 DWT	
112	H1913	Target Maritime	Crude Oil	158,000 DWT	
113	H1914	Target Maritime	Crude Oil	158,000 DWT	
114	H1928	Target Maritime	Crude Oil	158,000 DWT	
115	H1929	Target Maritime	Crude Oil	158,000 DWT	
116	H1915	VIKEN	Crude Oil	158,000 DWT	
117	H1916	VIKEN	Crude Oil	158,000 DWT	
118	H1918	Centrofin	Crude Oil	158,000 DWT	
119	H1919	Centrofin	Crude Oil	158,000 DWT	
120	H1922	Centrofin	Crude Oil	158,000 DWT	
121	H1927	Centrofin	Crude Oil	158,000 DWT	
122	H1937	Centrofin	Crude Oil	158,000 DWT	
123	H1930	Kyklades	Crude Oil	158,000 DWT	
124	H1931	Kyklades	Crude Oil	158,000 DWT	
125	H1932	Kyklades	Crude Oil	158,000 DWT	

## Sales reference of Gas detection system for Samsung Heavy Industries

No.	Hull No.	Owner Name	Vessel	Ship Type	REMARK
126	H1933	Kyklades	Crude Oil	158,000 DWT	
127	H1934	Kyklades	Crude Oil	158,000 DWT	
128	H1935	Kyklades	Crude Oil	158,000 DWT	
129	H1938	Nordic	Crude Oil	158,000 DWT	
130	H1939	Nordic	Crude Oil	158,000 DWT	
131	H1943	Unisea	Crude Oil	158,000 DWT	
132	H1944	Unisea	Crude Oil	158,000 DWT	
133	H1945	Unisea	Crude Oil	158,000 DWT	
134	H1959	Unisea	Crude Oil	158,000 DWT	
135	H1971	Unisea	Crude Oil	158,000 DWT	
136	H1952	Diamond S	Crude Oil	158,000 DWT	
137	H1953	Diamond S	Crude Oil	158,000 DWT	
138	H1954	Diamond S	Crude Oil	158,000 DWT	
139	H1955	Diamond S	Crude Oil	158,000 DWT	
140	H1956	NS Lemos	Crude Oil	158,000 DWT	
141	H1957	NS Lemos	Crude Oil	158,000 DWT	
142	H1958	NS Lemos	Crude Oil	158,000 DWT	
143	H1966	VIKEN	Shuttle	105,000 DWT	
144	H1967	VIKEN	Shuttle	105,000 DWT	
145	H1968	VIKEN	Shuttle	105,000 DWT	
146	H1969	VIKEN	Shuttle	105,000 DWT	
147	H1970	VIKEN	Shuttle	105,000 DWT	
148	H1977	VIKEN	Shuttle	105,000 DWT	
149	H1978	VIKEN	Shuttle	105,000 DWT	
150	T101	SEA RIVER	Crude Oil	115,000 DWT	AKER PHILADELPHIA
151	T102	SEA RIVER	Crude Oil	115,000 DWT	AKER PHILADELPHIA

## Sales reference of Gas detection system for DSME

No.	Hull No.	Owner Name	Vessel	Ship Type	REMARK
1	H5262	KRISTIN(Chevron)	Crude Oil	310,000 DWT	
2	H5263	KRISTIN(Chevron)	Crude Oil	310,000 DWT	
3	H5287	Kristen Navigation	Crude Oil	310,000 DWT	
4	H5297	Kristen Navigation	Product Carrier	310,000 DWT	
5	H5299	KRISTEN	Crude Oil	319,000 DWT	
6	H5261	Kristen Navigation	Crude Oil	310,000 DWT	
7	H5262	Kristen Navigation	Crude Oil	310,000 DWT	
8	H5263	Kristen Navigation	Crude Oil	310,000 DWT	
9	H5299	SCI	Crude Oil	319,000 DWT	
10	H5300	SCI	Crude Oil	319,000 DWT	
11	H5323	Kristen Navigation	Crude Oil	310,000 DWT	
12	H5324	Kristen Navigation	Crude Oil	310,000 DWT	
13	H5325	Neda Maritime	Crude Oil	310,000 DWT	
14	H5326	Neda Maritime	Crude Oil	310,000 DWT	
15	H5341	Kristen Navigation	Crude Oil	319,000 DWT	
16	H5364	Kristen Navigation	Crude Oil	319,000 DWT	
17	H5337	DK Maritime	Crude Oil	319,000 DWT	
18	H5338	DK Maritime	Crude Oil	319,000 DWT	
19	H5342	DK Maritime	Crude Oil	319,000 DWT	
20	H5343	DK Maritime	Crude Oil	319,000 DWT	
21	H5348	Brave Maritime	Crude Oil	115,000 DWT	
22	H5380	AET	Crude Oil	319,600DWT	
23	H5381	AET	Crude Oil	319,600DWT	
24	H5382	AET	Crude Oil	319,600DWT	
25	H5383	AET	Crude Oil	319,600DWT	
26	H5384	Sovcomflot	Product Tanker	113,000 DWT	
27	H5385	Sovcomflot	Product Tanker	113,000 DWT	
28	H5386	Sovcomflot	Product Tanker	117,800 TDW	
29	H5387	Sovcomflot	Product Tanker	117,800 TDW	
30	H5396	PRIME MARINE	Product Tanker	114,900 TDW	
31	H5397	PRIME MARINE	Product Tanker	114,900 TDW	
30	H5402	PRIME MARINE	Product Tanker	114,900 TDW	
31	H5403	PRIME MARINE	Product Tanker	114,900 TDW	
32	H5903	Transocean	Drillship		
33	H5904	Transocean	Drillship		
34	H5905	Transocean	Drillship		
35	H5908	Transocean	Drillship		
36	H4112	MISC	Container	95,000 DWT	CO2 monitoring
37	H4115	AP Moller	Container	95,000 DWT	CO2 monitoring
38	H4129	NSB	Container	43,000 DWT	CO2 monitoring
39	H4132	NSB	Container	43,000 DWT	CO2 monitoring

Sales reference of Gas detection system for DSME

No.	Hull No.	Owner Name	Vessel	Ship Type	REMARK
40	H4133	NSB	Container	43,000 DWT	CO2 monitoring

Sales reference of Gas detection system for STX SHUIPBUILDING

No.	Hull No.	Owner Name	Vessel	Ship Type	REMARK
1	H1105	Motia	Product Carrier	35,000 DWT	
2	H1163	Pietro	Product Carrier	51,000 DWT	
3	H1164	Pietro	Product Carrier	51,000 DWT	
4	H1174	Pietro	Product Carrier	51,000 DWT	
5	H1175	Pietro	Product Carrier	51,000 DWT	
6	H1186	Pietro	Product Carrier	51,000 DWT	
7	H1187	Pietro	Product Carrier	51,000 DWT	
8	H1190	Pietro	Product Carrier	51,000 DWT	
9	H1191	Pietro	Product Carrier	51,000 DWT	
10	H2005	Pietro	Product Carrier	51,000 DWT	
11	H2006	Pietro	Product Carrier	51,000 DWT	
12	S1188	DUNYA	Product Carrier	47,400DWT	
13	S1189	DUNYA	Product Carrier	47,400DWT	
14	S1203	PARAKOU	Product Carrier	51,000 DWT	
15	S1212	ATLANTSKA	Product Carrier	75,000 DWT	
16	S1215	DUNYA	Product Carrier	47,400DWT	
17	S1216	DUNYA	Product Carrier	47,400DWT	
18	S1226	INTERORIENT	Product Carrier	62,000 DWT	
19	S1228	INTERORIENT	Product Carrier	62,000 DWT	
20	S1230	INTERORIENT	Product Carrier	62,000 DWT	
21	S1231	Pietro	Product Carrier	51,000 DWT	
22	S1236	Pietro	Product Carrier	51,000 DWT	
23	S1238	Pietro	Product Carrier	51,000 DWT	
24	S1239	Pietro	Product Carrier	51,000 DWT	
25	S1242	Pietro	Product Carrier	51,000 DWT	
26	S1244	Pietro	Product Carrier	51,000 DWT	
27	S1232	INTERORIENT	Product Carrier	62,000 DWT	
28	S1260	GESCO	COT/PC	74,500 DWT	
29	S1261	GESCO	COT/PC	74,500 DWT	
30	S1254	GESCO	COT/PC	74,500 DWT	
31	S1256	GESCO	COT/PC	74,500 DWT	
32	S2007	MOTIA	Product Carrier	35,000 DWT	
33	S2008	MOTIA	Product Carrier	35,000 DWT	
34	S2014	Sovocom	Product Carrier	47,400DWT	
35	S2015	Sovocom	Product Carrier	47,400DWT	
36	S2016	Sovocom	Product Carrier	47,400DWT	
37	S2019	PARAKOU	Product Carrier	58,000DWT	
38	S2029	CIDO	Product Carrier	51,000 DWT	
39	S2030	CIDO	Product Carrier	51,000 DWT	
40	S2031	CIDO	Product Carrier	51,000 DWT	
41	S2032	CIDO	Product Carrier	51,000 DWT	



Sales reference of Gas detection system for STX SHUIPBUILDING

No.	Hull No.	Owner Name	Vessel	Ship Type	REMARK
42	S2033	CIDO	Product Carrier	51,000 DWT	
43	S2036	CIDO	Product Carrier	51,000 DWT	
44	S2036	CIDO	Product Carrier	51,000 DWT	
45	S2038	CIDO	Product Carrier	51,000 DWT	
46	S2040	CIDO	Product Carrier	51,000 DWT	
47	S2041	CIDO	Product Carrier	51,000 DWT	
48	S2042	CIDO	Product Carrier	51,000 DWT	
49	S2043	CIDO	Product Carrier	51,000 DWT	
50	S2044	MISC	Product Carrier	38,000 DWT	
51	S2045	MISC	Product Carrier	38,000 DWT	
52	S2046	MISC	Product Carrier	38,000 DWT	
53	S2047	MISC	Product Carrier	38,000 DWT	
54	S2048	MISC	Product Carrier	38,000 DWT	
55	S2049	MISC	Product Carrier	38,000 DWT	
56	S2050	MISC	Product Carrier	38,000 DWT	
57	S2051	MISC	Product Carrier	38,000 DWT	
60	S2052	ETA	Product Carrier	50,400 DWT	
61	S3001	AKTIF	Product Carrier	115,000 DWT	
62	S3002	AKTIF	Product Carrier	115,000 DWT	
63	S3003	AKTIF	Product Carrier	115,000 DWT	
64	S3005	AKTIF	Product Carrier	115,000 DWT	
65	S3010	AKTIF	Product Carrier	115,000 DWT	
66	S4001	FORMOSA	Product Carrier	73,800 DWT	
67	S4002	FORMOSA	Product Carrier	73,800 DWT	
68	S4003	FORMOSA	Product Carrier	73,800 DWT	
69	S4004	FORMOSA	Product Carrier	73,800 DWT	
70	B5036	PAN OCEAN	PC/Chemical	12,800 DWT	
71	B5039	PAN OCEAN	PC/Chemical	12,800 DWT	
72	B5037	MPS	Product Carrier	12,800 DWT	
73	B5038	MPS	Product Carrier	12,800 DWT	
74	B5050	MPS	Product Carrier	12,800 DWT	
75	B5052	MPS	Product Carrier	12,800 DWT	
76	S7001	MPS	Product Carrier	12,800 DWT	
77	S7002	MPS	Product Carrier	12,800 DWT	
78	S7003	MPS	Product Carrier	12,800 DWT	
79	S7004	MPS	Product Carrier	12,800 DWT	
80	S1418	Formosa Plastic	Product Carrier	50,400 DWT	
81	S1419	Formosa Plastic	Product Carrier	50,400 DWT	
82	S1423	Formosa Plastic	Product Carrier	50,400 DWT	
83	S1424	Formosa Plastic	Product Carrier	50,400 DWT	
84	S1304	Prime Marine	Product Tanker	74,500 DWT	

## Sales reference of Gas detection system for STX SHUIPBUILDING

No.	Hull No.	Owner Name	Vessel	Ship Type	REMARK
85	S1286	Prime Marine	Product Tanker	74,500 DWT	
86	S4005	Prime Marine	Product Tanker	74,500 DWT	
87	S4026	Prime Marine	Product Tanker	74,500 DWT	
88	S1312	Pietro Barbaro	Product Tanker	50,900 DWT	
89	S1313	Pietro Barbaro	Product Tanker	50,900 DWT	
90	S1463		Crude/Product oil	49,600 DWT	
91	S1508	Zippora Pte Ltd.	Crude/Product oil	74,500 DWT	
92	S1509	Zippora Pte Ltd.	Crude/Product oil	74,500 DWT	
93	S1535	NORDEN A/S	Crude/Product oil	49,600 DWT	
94	S1536	NORDEN A/S	Crude/Product oil	49,600 DWT	
95	S1537	NORDEN A/S	Crude/Product oil	49,600 DWT	
96	S1538	NORDEN A/S	Crude/Product oil	49,600 DWT	
97	S1571	ELKA	Shuttle Tanker	155,000 DWT	
98	S1572	ELKA	Shuttle Tanker	155,000 DWT	
99	S1573	ALTERNA	Crude/Product oil	49,600 DWT	
100	S1574	ALTERNA	Crude/Product oil	49,600 DWT	
101	S1575	ALTERNA	Crude/Product oil	49,600 DWT	
102	S1576	ALTERNA	Crude/Product oil	49,600 DWT	
103	S1577	PLEIADES	Crude/Product oil	49,600 DWT	
104	S1578	PLEIADES	Crude/Product oil	49,600 DWT	
105	S1579	ALTERNA	Crude/Product oil	49,600 DWT	
106	S1580	GESTIONI	Crude/Product oil	49,600 DWT	
107	S1736	LGR di Nav.	Chemical Tanker	50,800 DWT	
108	S1737	LGR di Nav.	Chemical Tanker	50,800 DWT	
109	S4010	ADNOC	Product Tanker	73,400 DWT	
110	S4013	ADNOC	Product Tanker	73,400 DWT	
111	S4015	ADNOC	Product Tanker	73,400 DWT	
112	S4016	ADNOC	Product Tanker	73,400 DWT	
113	S4073	ADNOC	Product Tanker	73,400 DWT	
114	S4700	ADNOC	Product Tanker	73,400 DWT	
115	S1582	EUROPEAN NAVI	Crude/Product oil	51,000 DWT	
116	S1583	EUROPEAN NAVI	Crude/Product oil	51,000 DWT	
117	S1591	EUROPEAN NAVI	Crude/Product oil	51,000 DWT	
118	S1592	EUROPEAN NAVI	Crude/Product oil	51,000 DWT	
119	S1593	EUROPEAN NAVI	Crude/Product oil	51,000 DWT	
120	B5068	DONGWON	TUNA	80M CLASS	CO2 DETECTOR
121	B5070	DONGWON	TUNA	80M CLASS	CO2 DETECTOR
122	S1641	NORDEN	Product Tanker	49,400 DWT	
123	S1642	NORDEN	Product Tanker	49,400 DWT	
124	S1643	NORDEN	Product Tanker	49,400 DWT	
125	S1644	NORDEN	Product Tanker	49,400 DWT	

Sales reference of Gas detection system for Other shipyard

No.	Hull No.	Owner Name	Vessel	Ship Type	REMARK
1	S414	Qatar ship	Product Carrier	37,000 DWT	SLS Shipyard
2	S415	Qatar ship	Product Carrier	37,000 DWT	
3	S422	Qatar ship	Product Carrier	37,000 DWT	
4	S429	ANCORA	Product Carrier	37,000 DWT	
5	S435	ANCORA	Product Carrier	37,000 DWT	
6	S437	ANCORA	Product Carrier	37,000 DWT	
7	S440	MORFINI	Product Carrier	40,000 DWT	
8	S441	MEDCARE	Product Carrier	40,000 DWT	
9	S446	MORFINI	Product Carrier	40,000 DWT	
10	S447	MEDCARE	Product Carrier	40,000 DWT	
11	S479	MORFINI	Product Carrier	40,000 DWT	
12	S480	MORFINI	Product Carrier	40,000 DWT	
13	S481	MEDCARE	Product Carrier	51,000 DWT	
14	S486	MEDCARE	Product Carrier	51,000 DWT	
15	S487	MEDCARE	Product Carrier	51,000 DWT	
16	S496	XIN AN SHIPPING	PC/Oil Carrier	49,700 DWT	
17	S497	XIN AN SHIPPING	PC/Oil Carrier	49,700 DWT	
18	S498	XIN AN SHIPPING	PC/Oil Carrier	49,700 DWT	
19	S499	XIN AN SHIPPING	PC/Oil Carrier	49,700 DWT	
20	S514	ANTILOPI	Product Carrier	40,000 DWT	
21	S515	ANTILOPI	Product Carrier	40,000 DWT	
22	S528	ANTILOPI	Product Carrier	40,000 DWT	
23	S529	ANTILOPI	Product Carrier	40,000 DWT	
24	S2011	ALMI	Crude Oil	316,000 DWT	
25	S2012	ALMI	Crude Oil	316,000 DWT	
26	S2013	ALMI	Crude Oil	316,000 DWT	
27	S2014	ALMI	Crude Oil	316,000 DWT	
28	S3001	ENTERPRISES	Product Carrier	75,000 DWT	
29	S3002	ENTERPRISES	Product Carrier	75,000 DWT	
30	S3003	DOLCO	Crude Oil	73,800 DWT	
31	S3004	DOLCO	Crude Oil	73,800 DWT	
32	S3008	SEYANG	Product Carrier	73,800 DWT	
33	S3009	SEYANG	Product Carrier	73,800 DWT	
34	S3015	DOLCO	Product Carrier	73,800 DWT	
35	S3016	DOLCO	Product Carrier	73,800 DWT	
36	S3017	DOLCO	Product Carrier	73,800 DWT	
37	S3022	ENTERPRISES	Product Carrier	47,000 DWT	
38	S3023	ENTERPRISES	Product Carrier	47,000 DWT	
39	S3024	ENTERPRISES	Product Carrier	47,000 DWT	
40	S3029	DOLCO	Product Carrier	73,800 DWT	
41	S3030	DOLCO	Product Carrier	73,800 DWT	

Sales reference of Gas detection system for Other shipyard

No.	Hull No.	Owner Name	Vessel	Ship Type	REMARK
42	S3031	DOLCO	Product Carrier	73,800 DWT	SUNGDONG Shipyard
43	S3032	DOLCO	Product Carrier	73,800 DWT	
44	S3033	DOLCO	Product Carrier	73,800 DWT	
45	S3034	DOLCO	Product Carrier	73,800 DWT	
46	S3037	BYZANTINE	Product Carrier	115,000 DWT	
47	S3038	BYZANTINE	Product Carrier	115,000 DWT	
48	S3039	BYZANTINE	Product Carrier	115,000 DWT	
49	S2021	Siatle	Crude Oil Tanker	158,000 DWT	
50	S2037	Scinicariello Ship	Crude Oil Tanker	115,000 DWT	
51	S2038	Scinicariello Ship	Crude Oil Tanker	115,000 DWT	
52	S3050	NAVIG8 Ship	Crude Oil Tanker	75,000 DWT	
53	S3056	Betonix	Product Carrier	75,000 DWT	
54	S3057	Newfront Ship.	Product Carrier	75,000 DWT	
55	S3058	Newfront Ship.	Product Carrier	75,000 DWT	
56	S3059	Navios Ship.	Product Carrier	75,000 DWT	
57	S3060	Navios Ship.	Product Carrier	75,000 DWT	
60	S3061	Navios Ship.	Product Carrier	74,000 DWT	
61	S3062	Navios Ship.	Product Carrier	74,000 DWT	
62	S8003	SAJO	TUNA SEINER	80 M	
63	S8004	SAJO	TUNA SEINER	80 M	
64	S8005	SAJO	TUNA SEINER	80 M	
65	S8006	SAJO	TUNA SEINER	80 M	
66	S8007	SAJO	TUNA SEINER	80 M	
67	S8008	SAJO	TUNA SEINER	80 M	
68	S8009	SAJO	TUNA SEINER	80 M	
69	H1179	Forbes Gokak	Oil/Chem. Tanker	13,000 DWT	SEKWANG Shipyard
70	H1180	Forbes Gokak	Oil/Chem. Tanker	13,000 DWT	
71	H1181	Forbes Gokak	Oil/Chem. Tanker	13,000 DWT	
72	H1182	Forbes Gokak	Oil/Chem. Tanker	13,000 DWT	

## Sales reference of Gas detection system for Oversea

No.	Hull No.	Owner Name	Vessel	Ship Type	REMARK
1	6599	Prestige Marine	Product Tanker	6,300 DWT	Norr systems
2	6600		Product Tanker	6,300 DWT	
3	6601		Product Tanker	6,300 DWT	
4	BH518-1	BW Ship.	Crude Oil Tanker	320,000DWT	
5	BH518-2	BW Ship.	Crude Oil Tanker	320,000DWT	
6	8601	Pertamina	Product Tanker	6,500 DWT	
7	8602	Pertamina	Product Tanker	6,500 DWT	
8	10604		Crude Oil Tanker	6500 LTDW	
9	1114		Crude Oil Tanker		Metromac Co.
10	PHOENIX		Crude Oil Tanker		
11	SUN		Crude Oil Tanker		
12	5301		Crude Oil Tanker		
13	1112		LPG/C		
14	1135		LPG/C		
15	1230	NITC	Crude Oil Tanker	319,000 DWT	SWS
16	1231	NITC	Crude Oil Tanker	319,000 DWT	
17	1236	NITC	Crude Oil Tanker	319,000 DWT	
18	1200	NITC	Crude Oil Tanker	319,000 DWT	
19	T3000-52	SK	Crude Oil Tanker	319,000 DWT	Dalian Shipbuilding
20	T3000-53	SK	Crude Oil Tanker	319,000 DWT	
21	Challenge point		Crude Oil Tanker		MODEC
22	MODEC		FPSO		
23	1071	FRONTLINE	LPG/C	83,000CBM	SHANGHAI JIANGNAN
24	1072	FRONTLINE	LPG/C	83,000CBM	
25	1073	FRONTLINE	LPG/C	83,000CBM	
26	1074	FRONTLINE	LPG/C	83,000CBM	
27	1075	FRONTLINE	LPG/C	83,000CBM	
28	1076	FRONTLINE	LPG/C	83,000CBM	
29	1077	FRONTLINE	LPG/C	83,000CBM	
30	1078	FRONTLINE	LPG/C	83,000CBM	