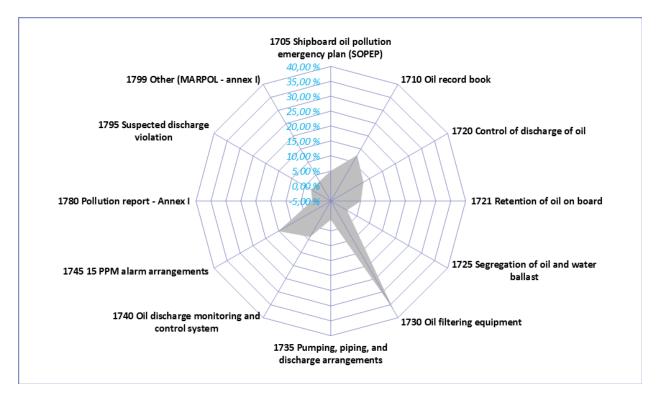


CL-01/2019

Oil Record Book Errors

According to the DNV report about 7% of deficiencies related to MARPOL - Annex I are specifically oil record book errors.

The PSCO will also review the engineer's oil record book. This book must document all shipboard oil transfers and discharge operations. During a PSC inspection, the PSCO checks for irregularities. Common irregular entries found in the oil record book include dates that are out of order, missing pages, repetitive entries and discrepancies with tank level entries that were recorded in earlier entries. The inspector will search for entries that may indicate tampering of the automatic recording devices.



Source: DNV-GL

The accuracy of entries in the Oil Record Book is one of the key points during the vessel's inspection by the Port State and Flag State authorities.

Let us examine some of the codes of the Oil Record Book (Part I) - Machinery space operations (All Ships):

(A) BALLASTING OR CLEANING OF OIL FUEL TANKS

(B) DISCHARGE OF DIRTY BALLAST OR CLEANING WATER FROM OIL FUEL TANKS REFERRED TO UNDER SECTION (A)

At the moment, fuel tanks are not typically used for ballasting on container/bulker fleet. Fuel and ballast systems are independent from each other. However, on ships built 2-3 decades earlier there are so-called fuel-ballast systems of dual purpose. When such vessels approach ports with limited depth of the fairway or sailing to a destination on rivers loading seawater to fuel oil tanks becomes quite necessary. The capacity of used tanks can reach thousands of tons. After the departure from the above-mentioned areas of navigation the problem of dirty ballast discharging rises. Dirty ballast water must be pumped out through 15 ppm OWS overboard or into shore facilities. Since Oily Water Separator pump rate ranges mainly from 5 to 10 m3 per hour it is not difficult to predict that pumping out 2,000 m3 of dirty ballast takes 200-400 hours subsequently. Unfortunately, the duration of the sea passage is often not as long, therefore cases occur when crews violate MARPOL requirements in the matter of proper dirty ballast water discharge.

(C) COLLECTION, TRANSFER AND DISPOSAL OF OIL RESIDUES (SLUDGE)

The greatest number of errors in Oil Record Book entries happens under Codes C and D. The list of these errors includes the loss of a certain amount of sludge due to carelessness; discrepancy between the amount of sludge accumulated and amount of fuel consumed.

It is considered that the amount of generated sludge should be within 1-1.5% of the fuel consumed. In fact, the formation of sludge depends on various factors. A preliminary assessment of the bunkered fuel specification can provide a lot of useful information, such as the presence of ash, catalytic fines, water, etc.

Very often, the ratio of sludge to consumed fuel is very large. Chief Engineers are explaining that by sudden leaks in the system or malfunctioning of the HFO/LO purifiers. Nevertheless, these cases are not reflected in the engine logbook because it is possible to compare this statement with the testimony of the alarm system. This matter is related to the problem of fuel overconsumption.

(D) NON-AUTOMATIC STARTING OF DISCHARGE OVERBOARD, TRANSFER OR DISPOSAL OTHERWISE OF BILGE WATER WHICH HAS ACCUMULATED IN MACHINERY SPACES

No fewer remarks are imposed by Flag State inspectors or PSC inspectors about pumping out bilge water overboard. The following errors are not rare: not indicating the position of the vessel, the discrepancy between the time entered into Oil Record Book and the time on the memory card of Oily Water

Separator control panel, as well as between amounts of discharged water and the oily water separator pump rate.

(E) AUTOMATIC STARTING OF DISCHARGE OVERBOARD, TRANSFER OR DISPOSAL OTHERWISE OF BILGE WATER WHICH HAS ACCUMULATED IN MACHINERY SPACES

This operation is not normally used by crews. The reason for this is that most vessels operate in UMS mode at night. All the accumulated water in the bilge wells is pumped out automatically into the bilge tank but not overboard. If unexpected leakage of fuel oil or lube oil happens, the automatic start of OWS would lead to rapid contamination of OWS.

(F) CONDITION OF THE OIL FILTERING EQUIPMENT

(G) ACCIDENTAL OR OTHER EXCEPTIONAL DISCHARGES OF OIL

These types of discharges are extremely rare and are the result of actions required to save the ships and the crews' lives.

(H) BUNKERING OF FUEL OR BULK LUBRICATING OIL

(I) ADDITIONAL OPERATIONAL PROCEDURES AND GENERAL REMARKS

Optional sealing of MARPOL Annex I related valve and/or equipment is an operation registered under the Code I. Quite often crews ignore this step and subsequently receive comments or recommendations from inspectors. Instructions for seals must be made clear. Ambiguous interpretation of the word "optional" should be avoided because this leads to unpleasant discussions with the port authorities. The best decision would be to omit the word "optional" by the Flag State administrations during the next revision of the oil record book.

According to requirements, the 15-ppm device should be checked regularly, and records should be made in the engine logbook and Oil Record Book. An entry about device verification must be inserted under the Code I.

The errors and omissions mentioned above in the conduct of ORB are only part of the possible claims. By the request of the Flag State Administration or the ship-owners, Bunker Protection team Inc. executes remote evaluations on the accuracy of filling out of the oil record book. An assessment will be made within a short notice with a detailed report and recommendations.

For further enquiries, please contact Bunker Protection Team Inc. at info@bunker-protection.com

Appendix

1. Two different items are combined

Name of ship: Nom du navire :			IMO number: Numéro OMI :	
_	CHINER	Y SPACE (OPERATIONS - OPÉRATIONS CONCERNANT LA TRANC	
Date (dd-mm-yyyy) (jj-mm-aaaa)	Code (letter) (lettre)	Item (number) Rubrique (numéro)	Record of operations – Opération	Signature of officer in charge de l'officier responsable
39/10/2015	110	26.1.2	DAVAO, PITILIPPINES; 15:15-18:40	*
57/10 17015	7	26.3	IF 380, 186 605 ART, PORT FUD BKR	
		76.5	170 mt TOTAL 184; PORT ATT BICK	
			16.6mt, 70TAC 144MT.	
10-0ct-2015	- 0	12 2	Transferred 1,0 m of HFO from	
0-000 2013		12.2	PO dearn & retained 0,9 m3,	A SA
		No.	into HFO storage & Fud PS	
			Total content of HPO storage F	
			Fud PS - 169, 4 m3	
10-Oct-2013	- 0	13	_	J. 7 (2000)
70 000 2010		14	_	
		15.1	through 15 ppm equipment	SA L
		10 /	through 15 ppm equipment start : 4 = 06°02, in; L= 126°43,5'E	
		186	Stop: 4 = 0546,5'N; 1 = 128°10,0'E	11 138000
1631	The s		Bilge water Collecting & ROB-	No. of the last of
			14,5m3	
10-0et-201	SF	19	10:30 4	THE PARTY NAMED IN
10 000	,	20	13:00 41	200
		21	Replaced coalescer and	
			absorber cartridges due to	y Tarahaman and a same
			presence of mud in the water	
			absorber cartridges due to presence of mud in the water inside of Bilge water collec-	
	1	3,8	ting E.	
1 50				
			Signature of m	aster

2. Entry inaccuracy

Name of ship: Nom du navire :			IMO number: Numéro OMI :	
MA	CHINE	V SPACE (PPERATIONS - OPÉRATIONS CONCERNANT LA TRAN	CHE DES MACHINES
IIIA	OTHINE	(ALL SHIPS)	(TOUS LES NAV	
Date (dd-mm-yyyy) (jj-mm-aaaa)	Code (letter) (lettre)	Item (number) Rubrique (numéro)	Record of operations – Opération	Signature of officer in charge de l'officier responsable
09/11/2015	H	26.12	BALBAO, PANAMA, 21:15-23:40	No. of Section
Official		3	IF 380 440.23 ME POET FUND BKR	, 2
		-	197 ME 187 ME: PORT AFT 79ME ISSME.	/
			ST&D AFT 174 ME, 174 ME;	
09 NOV -2015	0	12.1	Disposal 16 m2 of sludge	1 1200
1800		NO.	from studge E to barge	
			" Ecomar !" in port Backon,	
			retained - 0,0 m3	
09-Nov-2015	0	13	20,0 m3	
		14	12:47 - 14:22 67	
1/4/3/3	-	15.2	Disposal from Bilge water collec-	W.
			en Port Balboa, retained - 0,0m	134
			in Port Balboa, retained - 0,0m	
H-NOV-2015	I		Weekly inventory of Bilge water collecting F. ROB - 0,0m2	
		5 5 5	collecting & ROB - 0,0m3	T Hand
11-NOV-2015	C	11	collection of oil residues	
	Jan.	H.1	Sludge F	
		11.2	17,8 m ³	
		11.3		
H-NOV-2015	C	11.	Collection of oil residues	
	146	11-1		
109	Y	11.2	8,6 m ³	
		11.3	2,1 m ³	
				-
			Signature of a	naster

3. Wrong item

Name of ship: Nom du navire :			IMO number: Numéro OMI :	M
MA	CHINER	Y SPACE O	PERATIONS - OPÉRATIONS CONCERNANT LA TRANC	
Date (dd-mm-yyyy) (jj-mm-aaaa)	Code (letter) (lettre)	Item (number) Rubrique (numéro)	Record of operations – Operation	Signature of officer in charge de l'officier responsable
8/12/2015	H	3	MosilGARD 560VS 2993LTS	11 0 21 C1 H
			MORIL GARD M430 2984 LTS.	
13/12/2015	C	(12)	APPROX 20,000 LTS PROM SLUDGER	
	3-		AUXY DIRTY LOTZ & BILGER	EH de la companya de
		1	TO TRUCK IN BS ARMA, SLUDGETC	ell Language
a a			-On3 Awx LO. TR- Lm3 Belot TK- 5m3	21-
21/12/2015	C	12.4	TRANSFERRED OILY CONTAMINATED. HO	S.H. J
	JOHN	-tener	FROM BILDE WIFL AFT MIE INTO ANY DIRTY	SH- - HS
			40 TK IN QUANTITY OF OGGAS. AUX DIETY	n 1 3 21-11-81
			HO TK RETENTION: 226 m3.	
21/12/2015	C	11	COLLECTION OF OIL RESIDUES.	2011
	JA:	11-1	SLODGE TK,	Ell J
	17/2	11.2	17.8 m3. CAP	7-57-P.
	MA	11.3	S.Hbn3. RET.	
21/12/2015	C	11	COULECTION OF OIL RESIDUES.	1.15 - H 8-51-0
		11.)	Flo DRAIN TK.	1202
		11.2	8.6n3 CAP.	P-#t-Lip is a second
		11.3.	1.12 m3 RGT.	the state of the s
21 112/2015	C	1)	COLLECTION OF OIL RESIDUES.	
1121 WI		11.)	AOX DIRTY HO TK.	12/31
		11.2	8.6 m3 Refear	300
		11.3.	2.26 A3 RET.	The same of the sa
21/12/2015	I	I Au	WEEKLY INVENTURY OF BILLE WATER.	
	- 14/4-	phull.	COLLECTION TK: RET: 859M3	
		1/1		

4. Wrong item

Nom du navire :			IMO number: Numéro OMI :	
MA	CHINER	(ALL SHIPS)	PERATIONS - OPÉRATIONS CONCERNANT LA TRANS (TOUS LES NAVI	
		(ALE OTHEO)		
Date (dd-mm-yyyy) (jj-mm-aaaa)	Code (letter) (lettre)	Item (number) Rubrique (numéro)	Record of operations – Opération	Signature of officer in charge de l'officier responsable
29-12-15	C	11	COLLECTION OF OIL RESIDUES.	
		11.1	SLUDGE TK.	
		11.2	17.8 H3	
		11.3	6.3443	-63-36
29-12-15	C	11	COLLECTION OF OIL RESIDUES	
	-	11.1	FOR DRAID TK.	
		11.2	86m3	
		11.3	1,87m³.	
29-12-15	C	11	COLLECTION OF OIL RESIDUES.	
		11.1	'AUX DIRTY 40 TK.	
		11.2	8.6 m3.	
		11.3.	4.43 n3	
29-12-15	I		MEEKLY INVENTORY OF BILLE HO	
		1846	COLECTION TK: BET: 9.81 m3.	3
30-12-15	H	24.1	STERLING FUELS- WINDOOK ON	
		26.2	1101 - 1414	N. Janes
		26.3	ADDED. 160.08 MT IFO 380 TO AFT-	6916
		7,41	PORT 5780 BUNKIN TKS- 30636 MT	
			RETAINUN IN AFT PORT STED THS.	10/16/20 20/11/1
		263	ADDOD. 16.36 MT MOD TO PORT STAD	
			DIO TKS - 534 MT RETAINOD.	4
	/	243.	ADDOD. 7023.10 L MOBILGARD 300: 12.440 9B.	
	(263	ADDD. 7536.3L MOBILLARD SLOVS: 15.936 OB.	17.19
		263	ADDED 1211.4 L MOBILLARD 430: 5895 018.	

5. Record of amount of sludge/waste discharged and retained for each tank should be inserted.

Name of ship:			IMO number:	
Nom du navire :			Numéro OMI :	
MA	CHINER	Y SPACE	DPERATIONS - OPÉRATIONS CONCERNANT LA TRANC	HE DES MACHINES
		(ALL SHIPS)	(TOUS LES NAVIR	ES)
Date (dd-mm-yyyy) (jj-mm-aaaa)	Code (letter) (lettre)	Item (number) Rubrique (numéro)	Record of operations – Opération	Signature of officer in charge de l'officier responsab
30-12-15.	C	12.1	STERLING FUELS - WINDSOR, ON	5
			POMPED 20 NT OF WASTE OIL FROM.	
			AND DIRTY 40 TK; SWANTTK; EIR BILLE	
			TO SHORESIDE FACILITY.	1
01-01-16	C	12.2	TRANSFOR 2.13 M2 OF HED FROM FIO DRAIN	
			TK, INTO PORT AFT HEO BUKE TK. RETAINED	
			1.2m3 PORT AFT BALLO 132.8n3	
06-01-2016	C	11	Collection of oil residues	
		1-1.1	sludge F	
		11.2	17,8m3	
	t 0	11.3	1,6 m ³	
06-01-2016	C	11	Collection of oil residues	
		11.1	8,6 m ³	
		11.2	1,3 m3	
06-01-2016	C	11.3	Collection of oil residues	
00.01.2010		11.1	Aux. Dirty Oil E	
		11.2	8,6m3	1 1
		11.3	0,8m3	
06-01-2018	T			
*			weekly inventory of Bilge water Collecting E; ROB - 11,6m2	
			, = ,,	
		×.		
			Signature of mas	ter
		_		