

BUNKER AND SLUDGE ROB REPORT

20180812

BUNKER SLUDGE SURVEY]

CLIENT : **MSC Geneve**

VESSEL : **MSC CHLOE**

SERVICE ORDERED : **Bunker & Sludge ROB Checking**

GRADE 1 : **HSFO**

GRADE 2 : **MGOLS**

GRADE 3 : **LSFO**

GRADE 4 : **MDOLS**

SURVEY PORT/TERMINAL : **DURBAN PORT NP108**

SURVEY DATE/TIME : **2018-08-12 8H30 to 15H45**

SURVEYORS : **PRESTON CHETTY**

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According to the instructions received from Messrs. Mediterranean Shipping Company (GENEVE) we attended on board of(MADEIRA FLAG) the m/v "MSC CHLOE" (IMO 9720483)on 12 AUGUST 2018 whilst berthed at NP108, port of DURBAN, in order to perform a Bunker Survey to ascertain the quantity of bunkers on board of vessel at time of the survey.

FUEL HS/FUELS

a) Vessel logbook quantity - HSFO	2565,230 MT
b) Actual Quantity as per Surveyor - HSFO	2569,076 MT
c) Difference (b – a) - HSFO	3,846 MT
d) Percentage difference (b-a)/a - HSFO	0,150 %

e) Vessel logbook quantity - ULSFO	779,140 MT
f) Actual Quantity as per Surveyor - ULSFO	782,093 MT
g) Difference (b – a) - ULSFO	2,953 MT
h) Percentage difference (b-a)/a - ULSFO	0,379 %
a) Vessel logbook quantity - HSFO+ULSFO	3344,370 MT
b) Actual Quantity as per Surveyor - HSFO+ULSFO	3351,169 MT
c) Difference (b – a) - HSFO+ULSFO	6,799 MT
d) Percentage difference (b-a)/a - HSFO+ULSFO	0,203 %

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FUEL MGO

a) Vessel logbook quantity - MDO + MGO + MGO LS :	NA	MT
b) Actual Quantity as per Surveyor - MDO + MGO + MGO LS :	NA	MT
c) Difference (b – a) :	NA	MT
d) Percentage difference (b-a)/a :	NA	%
e) Vessel logbook quantity - MDOLS	121,04	MT
f) Actual Quantity as per Surveyor -MDOLS :	123,346	MT
g) Difference (b – a) -MDOLS :	2,306	MT
h) Percentage difference (b-a)/a -MDOLS :	1,905	%
a) Vessel logbook quantity - MGOLS	217,640	MT
b) Actual Quantity as per Surveyor - MGOLS	219,057	MT
c) Difference (b – a) - MGOLS :	1,417	MT
d) Percentage difference (b-a)/a - MGOLS	0,651	%

SLUDGE:

a) Vessel logbook quantity :	53,67	M3
b) Actual Quantity as per Surveyor :	53,67	M3
c) Difference (b - a)	0,00	M3
d) Percentage difference (b-a)/a	0,0	%
e) Last Sludge discharge date :	15-07-2018	
f) Last Sludge discharge quantity :	42,00	M3
g) Sludge retained after disch :	30,86	M3
h) Sludge generated from last discharge :	22,81	M3
i) IFO Consumption since last sludge discharge :	1861,84	MT
j) Sludge generated percentage (Including Water) :	N/A	%
k) Sludge was discharged at this port :	NO	
l) ROB of sludge after discharge :	N/A	M3
m) Water in sludge percentage :	N/A	%
n) Sludge generated percentage (Including Water) : NA %	1,23	%

Tank Nº.	Grade	Ull./Sound. cm	T.O.V. m3	Temp. °C	Density @15°C	V.C.F. Table 54B	G.S.V./N.S.V. m3 @15°	Mtons vac	Mtons air
1P	HSFO	47,00	26,20	49,00	1,0055	0,9771	25,6000	25,7408	SLUDGE 25,7127
1S	HSFO	51,00	27,80	41,00	1,0055	0,9825	27,3135	27,4637	27,4337
2P	HSFO	1194,00	1111,30	22,00	1,0055	0,9953	1106,0769	1112,1603	1110,9436
2S	HSFO	1188,00	1102,20	29,00	1,0055	0,9906	1091,8393	1097,8444	1096,6434
HFO OFLO1	HSFO	0,00	1,00	45,00	1,0055	0,9798	0,9798	0,9852	0,9841
HFO OFLO 2	HSFO	68,00	29,60	33,00	1,0055	0,9879	29,2418	29,4027	29,3705
HFO SETT 1	HSFO	611,00	115,10	87,00	1,0055	0,9513	109,4946	110,0969	109,9764
HFO SER 1	HSFO	906,00	176,60	93,00	1,0055	0,9472	167,2755	168,1955	168,0115
LSHFO	LSFO	614,00	601,60	28,00	0,8951	0,9899	595,5238	533,0534	532,3983
HFO SETT 2	LSFO	747,00	176,40	53,00	0,8951	0,9703	171,1609	153,2061	153,0179
HFO SER 2	LSFO	606,00	113,20	72,00	0,8951	0,9553	108,1400	96,7961	96,6771
MDO STOR 1	MDO	GAUGE	0,4	32,00	0,8508	0,9858	0,39432	0,3355	0,335053704
MGO S	MDO	597	78	32	0,8899	0,9866	76,9548	68,4821	68,39742624
MDO SETT	MDO	GAUGE	17,9	32	0,8508	0,9858	17,64582	15,0131	14,99365325
MDO SER	MDO	GAUGE	47,3	32	0,8508	0,9858	46,62834	39,6714	39,6201005
MGO P	MGO	589,00	78,40	33	0,8363	0,9846	77,1926	64,5562	64,4713
MGO C	MGO	455,00	67,40	33	0,8363	0,9846	66,3620	55,4986	55,4256
MGO STOR 2	MGO	GAUGE	57,90	27,00	0,8508	0,9900	57,3210	48,7687	48,7057
MGO OFLO	MGO	0,00	0,10	38,00	0,8363	0,9803	0,0980	0,0820	0,0819
MGO SER	MGO	385,00	61,20	32,00	0,8363	0,9855	60,3126	50,4394	50,3731
Total	HSFO		2 589,800				2 557,822	2 571,890	2 569,076
	LSFO		891,200				874,825	783,056	782,093
	MDO LS		143,600				141,623	123,502	123,346
	MGO LS		265,000				261,286	219,345	219,057

SLUDGE

Tank Nº.	initial	initial volume	initial volume
	Ull./Sound. cm	Sounded m3	by LogBook at 'm3
DIRTY LO TK	38,00	2,27	2,27
FO DRAIN TK	21,00	1,98	1,98
NO1 FO SLUDGE TK	158,00	10,82	10,82
NO2 LO SLUDGE TK	98,00	5,76	5,76
SEPARATED BILGE OIL TK	101,00	31,54	31,54
INCINERATOR WASTE OIL TK	13,00	1,30	1,30
Total Sludge Sounded		53,670	53,670

Last Sludge Discharge **42,000** [M3] on 15-07-2018
Sludge retained after discharge **30,860** [M3] at ANTWERP
Sludge generated from last discharge **22,810** [M3]
IFO Consumption from Last Discharge **1 861,84** [Mt]
Sludge was discharged at this port **NO**

FO PURIFIER PARAMETERS

TEMP. SETTINGS **98°C**
FLOW SETTINGS **7,1 M3 P/ HOUR**
BOWL DISCHARGE FREQUENCY **EVERY 90 MIN**

BILGE WATER HOLDING TANKS

Tank Nº.	initial	initial	initial
	Ull./Sound. cm	Volume Sounded m3	Volume by LogBook at 'm3
BILGE WATER HOLDING TANKS	80,00	27,20	27,20
Total Bilge Sounded		27,200	27,200

BILGE OIL SEPARATOR (OWS)

OWS in use YES
Bilges pumped through OWS for last 2 months **61,000** M3
Hours Run 10,16 Hrs

Time Sheet:

12-08-2018 8H30 hrs. Surveyor on board
12-08-2018 8H45 hrs. Onboard soundings commenced
12-08-2018 9H30 hrs. Onboard soundings completed
12-08-2018 15H45 hrs. Surveyor disembarked

IFO CONSUMPTION RECORD (HSFO+ULSFO):

Date	ROB (MT)
21-07-2018	4898,79
12-08-2018	3344,37
Total Received (ADJUSTMENT)	106,29
Consumed	1660,71

Remarks:

Remark 1: CE MADE ADJUSTMENT AND DECLARED HFO + 106,29 MT ON 06/08/2018 ON VRS AND LOGBOOK

Remark 2: SOUNDING DURING CARGO OPERATIONS

Remark 3:VRS will be updated according to Survyer next day noon

BUNKER SLUDGE SURVEY

ROB ascertained by bunker survey on 12-08-2018 was 2569,076 MT for HSFO, 782,093 MT for ULSFO, 123,346 MT for MDOLS & 219,057 MT for MGOLS or 3693,572 MT in total.]

ROB on VRS and Logbook on 12-08-2018 was 2565,230 MT for HSFO, 779,140 MT for ULSFO, 121,040 MT for MDOLS & 217,640 MT for MGOLS or 3683,050 MT in total. C/E to updated according to survey figures and keep recording on log book. VRS updated The differences on ROB between bunker survey and VRS & Logbook are 3,846 MT on HSFO (or 0.150 %), 2,953 MT for ULSFO (or 0,379 %) , 2,306 MT for MDOLS (or 1,905%) & 1,417 MT for MGOLS (or 0,651%) all under the allowable tolerance.

The consumption of flowmeters mixed all grades therefore we can only compare all grades mixed and the difference between flowmeters and VRS/Logbook was 4,456 MT or 0,268 %. All Digital flowmeters

