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Cargo Care Checklist: Grain

ACTION TO BE TAKEN WHEN ĎEÁLÍNG WITH **GRAIN** ARGO

This checklist should be used in conjunction with the ship operator's procedures and the IMO Grain Code.

It is suitable for use with all naturally occurring unprocessed seeds, beans and grains including soya bean.

01 HOLD PREPARATION

Record of previous cargoes available
Crew understand what standards are required
Holds free of previous cargo and residues
Holds free of loose rust and paint scale
Holds free of other contaminants
Holds free from odours
Holds free of moisture
Tank manhole lids leak checked and properly secured
Bilges clean and dry - cover where required
Planned maintenance on bilge non-return valves and up to date
Time stamped photos taken showing hold preparation
Maintain details of any hold cleaning agents used inc. MSDS
Records of any recent hold maintenance available including hold paint specification
Planned maintenance records for hatch covers checked and up to date
Record of any recent hatch cover weather-tight testing available
Planned maintenance records for cargo hold ventilation checked and up to date
Accurate log timings maintained throughout preparations
Records of any hold surveys maintained

Grain clean unless otherwise stated in shipper's or charterers voyage instructions.

Note:

The National Cargo Bureau definition of grain clean is as follows:

Compartments are to be completely clean, dry, odour-free, and gas-free. All loose scale is to be removed.

Some loose scale / rust is allowable however the following would not be acceptable as Grain Clean:

- Scale or loose paint breaks when struck with fist or light pressure from knife.
- A single area of loose rust or paint is 2.5 m2 or
- The total quantity area of loose rust or paint is more than 9m2





Example of loose scale

Example of oxidisation rust which would not affect the cargo

Planned maintenance records:

Should where possible include notes of the checks done, findings and any resolved issues.

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02 PRIOR TO LOADING

↑ In known claims hotspots such as Brazil t	for soya bean, consider appointing local surveyor.
	ed
_	
3 . , .	
	ed
	ed in certificate of quality
(not a MAX moisture see below) record here	:
	Note:
COMMODITY : Brazilian Soy PACKING : In Bulk	beans
QUANTITY : 62,189.345 N	4Т
* * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *
SAMPLING:	
Sets of samples were collected uniformly	y and systematically, concurrently with loading, at the ccordance with the method laid down by FOSFA.
	and reduced to average samples of the total shipped at on this average samples are reported as follows:
Specifications:	Results: 20.27 %
Oil Content : Protein :	35.42 %
Foreign Material : Moisture	0.41 % 11.24 %
Total Damage Kernel : Heat Damage Kernel :	5.21 % 0.60 %
Splits	7.91 %
Correct formatted cert of quality showing the actual aver	rage moisture content.
PROPERTY	SPECIFICATION
FAT	MIN. 18,00%
MOISTURE TOTAL DAMAGED	MAX. 14,00% MAX. 8,00%
HEAT DAMAGED	MAX. 4,00%
FOREIGN MATTERS	MAX. 1,00%
BROKEN BEANS	MAX. 30,00%
Incorrectly formatted cert of quality showing a maximum	i moisture content
If average moisture content not available in c	correct format, LOP issued by Master
_	inform operations team)
-	1.5% (if yes, inform operations team)
	ature ready
	aure ready
'	n
Compra ready with date and time set for evid	



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03 **LOADING**

	DING						
Deck o	fficers briefed	d and on dec	k monitoring ope	erations			
Γime s	tamp photog	raphic evide	nce taken throug	hout			🔲
Monito	Monitor weather at all times in case of rain						<u>U</u>
Mainta	in accurate re	cords of car	go operations				Ц
Colour	of cargo in ap	oparent good	d condition				<u> </u>
	-	-					
No uni	usual smells fi	rom cargo					
	_	_					
	_						
	-						
							Ш
Note c	argo tempera	ature on load	ing and average r	moisture	here:		
Hold No Cargo Temp on Loadir		on Loading	Reported Average Moisture cor		erage Moisture conte	ent	
1							
2							
3							
4							
5							
6							
7							
		<u>. </u>			<u>. </u>		
			Not	e:			
	oximate stora d growth:	ge time in da	ys that soya bear	n cargoes	s can be store	d before high risk of	:
				1	1		
^	lvoraga maist	uro contont	Cargo temperatu		aing	2700	
	verage moist	ure content	16°C	21°C		27°C	
	2%		240 days	125 d	·	70 days	-
	4%		75 days	45 da		20 days	_
1	6%		35 days	20 da	lys	10 days	-
- Limia:				Lunderst	ood by Maste	r and crew	
			ons received and				
_	, .						
		3 1					
			Not	e:			
appoi	iter is concerr nted fumigato narterer shoul	or (for examp	ole: fumigate for t	umigation he entire	n instructions voyage), writ	from the charterers ten confirmation fro	s om

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Cargo Care Checklist: Grain (cont.)

ACTION TO BETAKEN WHEN DEALING WITH **GRAIN CARGO**

This checklist should be used in conjunction with the ship operators' procedures and the grain code. It is suitable for use with all naturally occurring unprocessed seeds, beans and grains including Soya Bean.

	Holds sealed where required and seal numbers noted and agreed	
	Draught survey results to be confirmed as accurate and agreed by all parties	
	Note:	
	Ships crew should be present and conduct their own draught survey with all surveyors present. Figures and results should be agreed.	
	See North's draught survey guide for more details on conducting and agreeing a daft survey.	
04	ON PASSAGE	
	Passage plan attempts to avoid adverse weather	
	3 Degree rule used to calculate ventilation and accurate records maintained	
	Maintain accurate weather records for the passage	
	Maintain accurate record of all hatch or hold operations and explain reasons	
	Fuel heating and transfers carefully monitored and recorded to prevent heat damage to adjacent holds	
	Any ballasting operations carefully monitored and recorded	
	Any operations that use the bilge system recorded	
	Accurate tank and bilge soundings for all maintained	_
	Note:	
	3 Degree Rule : Ventilate the cargo when the outside air temperature is at least 3 degrees below the temperature of the cargo taken on loading.	
	It is extremely important that accurate records of ventilation are maintained throughout the voyage including reasons why ventilation was stopped if at all.	
	Please refer to North's guide to Cargo Ventilation for more details.	
	Use 20 rule upless advised otherwise by chipper's or charterers instructions	

05 **DISCHARGE**

record to be taken) ...

 \triangle Consider appointing a local surveyor. In particular for claims hotspots such as China.

Camera ready with date and time set for evidence taking (continuous photographic

Arrival times noted including notice of readiness tendered
Vessel condition known including draughts
Maintain all charterers' and agents' instructions
Any certificates required for permitting discharge received and maintained
Weather forecast received - no operations in the rain
Discharge sequence agreed by Master
Removal of seals witnessed by interested parties and recorded
Deck officers briefed and on deck monitoring operations
Time stamp photographic evidence taken throughout
Monitor weather at all times in case of rain
Consider use of radar to see approaching rain
Maintain accurate records of cargo operations at all times



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No signs of self-heating
No signs of mould growth
No colour changes to the cargo
No unusual odours
No signs of infestation
Cargo temperature recorded on discharge
Monitor any tally operations
Draught survey results to be confirmed as accurate and agreed by all parties
Received copies of any 3rd party surveyor reports
Ensure on completion an empty hold certificate is issued
Ensure an out turn report / certificate is agreed

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