



# Mooring Operations & Equipment Manual

## Shipboard Version



*Enter Username...*

*Password*

**LOGIN**

## Office Online Version

<https://damico.mooringplan.com/>



*Enter e-mail...*

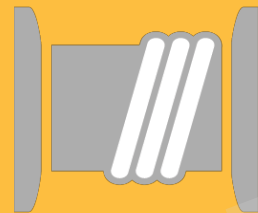
*Password*

**LOGIN**



# Mooring Operations & Equipment Manual

*In Compliance to MEG4*



**MSMP**

**Mooring System  
Management Plan**



**LMP**

**Line  
Management Plan**

**TRAINING MODULES**

# Mooring Operations & Equipment Manual

*In Compliance to MEG4*

## DELIVERABLES OF OUR SOLUTION

### VERSION - 1

#### > Hard Copy Manual includes MSMP, MSMPR and LMP

1. Ship-specific & Company-specific hard copy manuals delivered in pdf format

### VERSION - 2

#### > Electronic Manual includes MSMP, MSMPR and LMP

1. Ship-specific & Company-specific electronic Manuals incorporated in Software
2. Shipboard Software containing complete systematic approach to inspection, monitoring, predictive analysis with notification alerts and training media. Document Control compliant.
3. Office Cloud based Software containing complete fleet data of inspection, utilised for on-shore monitoring, predictive analysis, trading pattern issues and lifecycle records.

*Shipboard Software works on Offline mode with data exchange to office (few Kbs) via existing e-mail system*



[Help?](#)

# Mooring Operations & Equipment Manual

>MSMP

## Mooring System Management Plan

### Introduction

Instructions

### A

General Ship  
Particulars

### B

Mooring Equipment  
Design Philosophy

### C

Detailed List of  
Mooring Equipment

### D

Inspection, Maintenance  
& Retirement Strategies

### E

Risk & Change Mngmt,  
Safety of Personnel &  
Human Factors

### F

Records and  
Documentation

### G

Mooring System  
Management Plan  
Register

# Mooring Operations & Equipment Manual

>MSMP>Introduction

PDF

PRINT

## Introduction

### 1.0 Purpose & Scope

### 2.0 Rules of Mooring Operation

### 3.0 10 Thumb Rules of Mooring

### 4.0 Pre-Mooring Meeting

## Ship Specific Info

### Revision Status

### A- General Ship Particulars

### B - Mooring Equipment Design Philosophy

### C - Detailed List of Mooring Equipment

### D - Inspection, Maintenance & Retirement Strategies

## MOORING OPERATIONS AND EQUIPMENT MANAGEMENT PLAN INTRODUCTION

Date: Nov 20 2018  
Ver: 1.01  
Page 1 of 5

### 1.PURPOSE AND SCOPE

**d'Amico Società di Navigazione** recognizing the potentially serious impact of marine incidents during the mooring operation. Mooring is the operation performed first and foremost by the deck crew as the ship reaches the port – but it is also one of the most difficult, complex and dangerous job performed on board. Mostly things turn out safely, but sometimes an accident occurs and this usually has severe consequences. Several cases have been reported in shipping industry in the past about accidents during mooring operations and many of them have led to severe injury or death of seamen in some cases. Accidents come unexpectedly, but the worst case scenario is of course a crew member getting injured. Accidents always happen while we are unprepared, believing the operation to be going smoothly and efficiently. You think you are in control, doing what you always do while mooring and suddenly you are in the middle of a situation which you never thought or anticipated for with a major crisis to be managed immediately and afterwards.

The purpose of Mooring Operations and Equipment Management is to ensure the mooring system is Inspected, maintained and operated in accordance with design and assessed risk for the safety of crew.

The crew handling the mooring on-board are properly trained & familiarised. The mooring equipment are adequately designed & tested for safe working loads and all the related records are maintained on-board. The mooring areas are always maintained in safe condition, anti-slip paint is applied, snap back areas are highlighted and mooring operations are always conducted in planned, controlled & most safely.

The mooring operations The plan is to be used in conjunction with the set of company Safety Procedures placed on board, and with reference to the following industry publications provided on Board:

#### INTERNATIONAL CHAMBER OF SHIPPING / OIL COMPANIES INTERNATIONAL MARINE FORUM

- 1.Mooring Equipment Guideline
- 2.OCIMF Guidelines on the Use of High-Modulus Synthetic Fibre Ropes as Mooring Lines on Large Tankers
- 3.OCIMF Recommendations for Ships' Fittings for Use with Tugs





# Mooring Operations & Equipment Manual

>MSMP>General Ship Particulars

[PDF](#)[PRINT](#)

Introduction ▼

A- General Ship Particulars ▶

1.0 Ship Particulars ▶

Ship Specific Info ▼

Revision Status ▼

B - Mooring Equipment Design Philosophy ▼

C - Detailed List of Mooring Equipment ▼

D - Inspection, Maintenance & Retirement Strategies ▼

E - Risk & Change Mngmt, Safety of Personnel & Human Factors ▼

F- Records & Documentation ▼

G - Mooring System Management Plan Register ▼

## MOORING OPERATIONS AND EQUIPMENT MANAGEMENT PLAN SHIP PARTICULARS

Date: Nov 15 2018  
Ver: 1.00  
Page 1 of 2

1.	GENERAL INFORMATION			
1.1	Date updated:		Aug 28, 2018	
1.2	Vessel's name (IMO number):		Cielo Di Rotterdam (9781279)	
1.3	Vessel's previous name(s) and date(s) of change:		Not Applicable	
1.4	Date delivered/Builder (where built):		Jan 30, 2018/Hyundai Vinashin Dockyard	
1.5	Flag/Port of Registry:		Liberia/Monrovia	
1.6	Call sign/MMSI:		D5PT6/636018456	
1.7	Vessel's contact details (satcom/fax/email etc.):		Tel: 463724328 Fax: Email: cdrotterdam.master@damicofleet.com	
1.8	Type of vessel (as described in Form A or Form B Q1.11 of the IOPPC):		Oil Tanker	
1.9	Type of hull:		Double Hull	
Dimensions				
1.27	Length overall (LOA):		228.00 Metres	
1.28	Length between perpendiculars (LBP):		219.00 Metres	
1.29	Extreme breadth (Beam):		36.00 Metres	
1.30	Moulded depth:		20.00 Metres	
1.31	Keel to masthead (KTM)/ Keel to masthead (KTM) in collapsed condition, if applicable:		47.52 Metres	NA
1.32	Distance bridge front to center of manifold:		76.10 Metres	
1.33	Bow to center manifold (BCM)/Stern to center manifold (SCM):		113.50 Metres	114.50 Metres
1.34	Parallel body distances	Lightship	Normal Ballast	Summer Dwt
	Forward to mid-point manifold:	13.96 Metres	50.50 Metres	51.36 Metres
	Aft to mid-point manifold:	22.26 Metres	42.41 Metres	64.81 Metres
	Parallel body length:	36.22 Metres	92.91 Metres	116.17 Metres






# Mooring Operations & Equipment Manual

>MSMP>General Ship Particulars>Ship Specific Info

[PDF](#)[PRINT](#)[Introduction](#)[A- General Ship Particulars](#)[1.0 Ship Particulars](#)[Ship Specific Info](#)[Revision Status](#)[B - Mooring Equipment Design Philosophy](#)[C - Detailed List of Mooring Equipment](#)[D - Inspection, Maintenance & Retirement Strategies](#)[E - Risk & Change Mngmt, Safety of Personnel & Human Factors](#)[F- Records & Documentation](#)[G - Mooring System Management Plan Register](#)

## Ship Specific Information (Plans, Forms etc)

[ADD NEW](#)



	Type of Attachment	View/ Download	Edit
1	Cielo Di Rotterdam_VPQ_28-Aug-18.pdf	 	

# Mooring Operations & Equipment Manual

>MSMP>General Ship Particulars>Revision Status

[PDF](#)[PRINT](#)[Introduction](#)[A- General Ship Particulars](#)[1.0 Ship Particulars](#)[Ship Specific Info](#)[Revision Status](#)[B - Mooring Equipment Design Philosophy](#)[C - Detailed List of Mooring Equipment](#)[D - Inspection, Maintenance & Retirement Strategies](#)[E - Risk & Change Mngmt, Safety of Personnel & Human Factors](#)[F- Records & Documentation](#)[G - Mooring System Management Plan Register](#)

## Revision Status Information

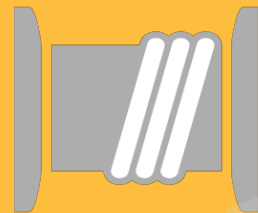
	Revision Title	Revision Number	View Details
1	Additional Details of Ship Particulars - Owners & Charterers	1.0.2	
2	Corrected spellings	1.0.1	





# Mooring Operations & Equipment Manual

*In Compliance to MEG4*



**MSMP**

**Mooring System  
Management Plan**



**LMP**

**Line  
Management Plan**

**TRAINING MODULES**

[Help?](#)

# Mooring Operations & Equipment Manual

&gt;LMP

## Line Management Plan

### Introduction

Instructions

### A

Mooring Winch Details

### B

Mooring Rope Details

### C

Planned Maintenance  
Criteria

	Notification	Winch No	Winch Location
1	External Abrasion exceeded limit	M3	Stbd Aft Main Dk
2	Inspection overdue	M4	Port Aft Main Dk
3	Inspection overdue	M9	Stbd F'castle Dk
4	Mooring Rope replacement required	M11	Stbd F'castle Dk



# Mooring Operations & Equipment Manual

>LMP>Mooring Winch Details

Search Text...

PDF

PRINT

Introduction

A - Mooring Winch Details

B - Mooring Rope Details

C - Planned Maintenance Criteria

Revision Status

Admin Settings

## MOORING OPERATIONS AND EQUIPMENT MANAGEMENT PLAN Mooring Winch Details

Date: Nov 20 2018  
Ver: 1.01  
Page 1 of 5

Winch No	Winch Location	Zone-1 Details	Zone-2 Details	Misc. Details	Status
M1	Stbd Aft Main Dk				Check Zone-1
M2	Port Aft Main Dk				Fit for use
M3	Stbd Aft Main Dk				Fit for use
M4	Port Aft Main Dk				Check Zone-2

# Mooring Operations & Equipment Manual

>LMP>Mooring Winch Details> Zone-1

[PDF](#)
[PRINT](#)

Introduction ▼

A - Mooring Winch Details ▶

B - Mooring Rope Details ▼

C - Planned Maintenance Criteria ▼

Revision Status ▼

## MOORING OPERATIONS AND EQUIPMENT MANAGEMENT PLAN Mooring Winch Details

Date: Nov 20 2018  
Ver: 1.01  
Page 1 of 5

### Mooring Winch - Zone 1 Details

Winch Nr: **M1** ▼

Status: **Check Zone -1**

Zone Details: **Chock/Fairlead Hardware Contact Zone**

Inspection Frequency: **3 M**

[ADD NEW](#)

Date	External Abrasion (Rating)	Internal Abrasion (Rating)	Length of Abrasion (Mtrs)	Distance from Outboard Eye (Mtrs)	Cut Yarn Severity (Nr)	Length of Glazing (Mtrs)
31-Jul-2018	7	6	20	14	3	2.5
31-Mar-2018	6	4	15	8	4	4.8





# Mooring Operations & Equipment Manual

>LMP>Mooring Rope Details>Ropes Status

[PDF](#)[PRINT](#)[Introduction](#)[A - Mooring Winch Details](#)[B - Mooring Rope Details](#)[1.0 Ropes Status](#)[2.0 Rope Inspection Details](#)[3.0 Mooring Hours](#)[C - Planned Maintenance Criteria](#)[Revision Status](#)[Admin Settings](#)

## MOORING OPERATIONS AND EQUIPMENT MANAGEMENT PLAN Mooring Rope Details

Date: Nov 20 2018  
Ver: 1.01  
Page 1 of 5

[ADD NEW ROPE](#)

Rope Identification	Rope Location	Details	Edit Rope Information	Status
PP 1	Stbd Aft Main Dk			End to End Due
PP 2	Port Aft Main Dk			Fit for use
PP 3	Stbd Aft Main Dk			Fit for use
PP 4	Port Aft Main Dk			Running Hrs exceeded
TAIL 1	Stbd Poop Dk			Replacement due
TAIL 2	Port Poop Dk			Fit for use



# Mooring Operations & Equipment Manual

>LMP>Mooring Rope Details>Ropes Inspection Details

[PDF](#)[PRINT](#)[Introduction](#)[A - Mooring Winch Details](#)[B - Mooring Rope Details](#)[1.0 Ropes Status](#)[2.0 Rope Inspection Details](#)[3.0 Mooring Hours](#)[C - Planned Maintenance Criteria](#)[Revision Status](#)[Admin Settings](#)

MOORING OPERATIONS AND EQUIPMENT MANAGEMENT PLAN

Mooring Rope Details

Date: Nov 20 2018

Ver: 1.01

Page 1 of 5

## Mooring Rope Inspection Details

Rope Nr: **PP 1**

Status: **Check Zone -1**

Inspection Frequency: **3 M**

In Service since: **25-Nov-2017**

Certificate Number: **WQ1-202012-22**

[ADD NEW](#)

Inspection Date	Winch Nr	Mooring Hours	External Abrasion (Rating)	Internal Abrasion (Rating)	Remarks	Edit   Delete
31-Jul-2018	M1	222	4	2	Surging in Port @ Sikka	Edit   Delete
31-Mar-2018	M11	180	4	1	None	Edit   Delete
31-Dec-2017	M11	65	1	1	New Rope	Edit   Delete





# Mooring Operations & Equipment Manual

>LMP>Mooring Rope Details>Mooring Hours

[PDF](#)[PRINT](#)[Introduction](#)[A - Mooring Winch Details](#)[B - Mooring Rope Details](#)[1.0 Ropes Status](#)[2.0 Rope Inspection Details](#)[3.0 Mooring Hours](#)[C - Planned Maintenance Criteria](#)[Revision Status](#)[Admin Settings](#)

MOORING OPERATIONS AND EQUIPMENT MANAGEMENT PLAN

Mooring Rope Details

## Mooring Hours

Date: Nov 20 2018

Ver: 1.01

Page 1 of 5

[ADD NEW](#)

Date & Time From	Date & Time To	Mooring Hours	Location	Remarks	Edit   Delete
17-Aug-2018 0430	18-Aug-2018 1600	35.5	Sikka	Surging Observed	Edit   Delete

### Training Material ▼

Video: Inspection & Retirement Guidelines ▶

Video: Effect of Twist on Braided Rope ▼

Video: Elogation Causes & Effects ▼

Graphic: External & Internal Abrasion Rating ▼

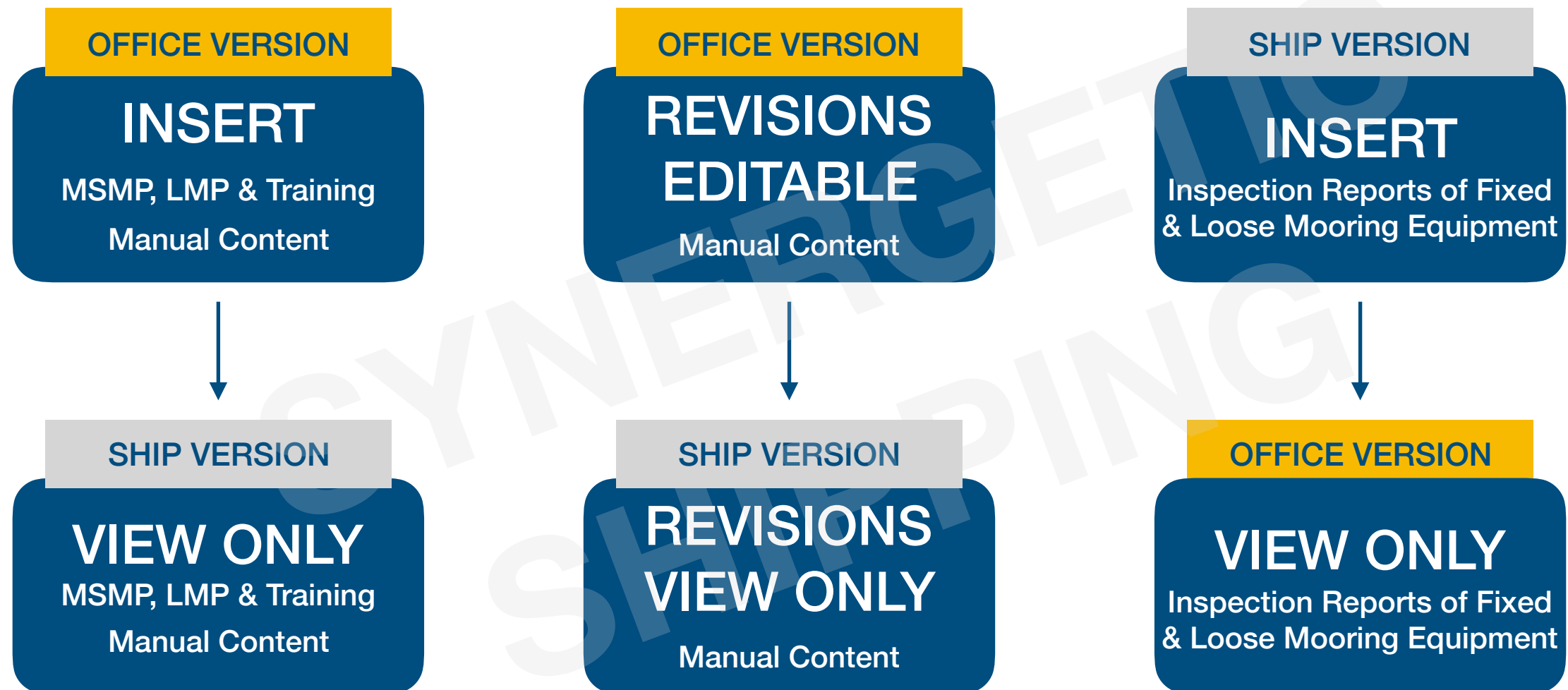
### Video : Inspection and Retirement Guidelines



Scroll down to Check  
more Training material



## Flow of Data





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Dashboard

Notifications

Mooring Equipment Records

Analysis

MSMP

LMP

Training Content

User Manager

Settings

Dashboard

126

29

Welcome: Admin!

Help

Logout

Fleet Name

Fleet Type

Vessel Name

Search

Vessel Name	Last Data	Last Import	Notifications	Action
Cielo Di Rotterdam	01-Mar-2019	02-Mar-2019	3/28	<a href="#">Details</a>   <a href="#">Records</a>
Cielo Di Houston	25-Feb-2019	28-Feb-2019	7/45	<a href="#">Details</a>   <a href="#">Records</a>
Cielo Di Rotterdam	01-Mar-2019	02-Mar-2019	3/28	<a href="#">Details</a>   <a href="#">Records</a>
Cielo Di Houston	25-Feb-2019	28-Feb-2019	7/45	<a href="#">Details</a>   <a href="#">Records</a>
Cielo Di Rotterdam	01-Mar-2019	02-Mar-2019	3/28	<a href="#">Details</a>   <a href="#">Records</a>
Cielo Di Houston	25-Feb-2019	28-Feb-2019	7/45	<a href="#">Details</a>   <a href="#">Records</a>

First

Prev

1

2

3

4

5

Next

Last



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Dashboard

Notifications

Mooring Equipment Records

Analysis

MSMP

LMP

Training Content

User Manager

Settings

Notifications

126

29

Welcome: Admin! Help Logout

EXPORT

Fleet NameFleet TypeVessel NameDeviation TypeDate FromDate To

✓ Acknowledge

Notifications: 174 / 300

Search

<input type="checkbox"/>	Date	Vessel Name	Notification	Vessel Acknowledged	Action
<input type="checkbox"/>	16-Mar-2019	Cielo Di Rotterdam	External Abrasion exceeded limit Winch: M3   Loc: Stbd Aft Main Dk	Yes	<a href="#">Details</a>   <a href="#">Ack</a>   <a href="#">Comment</a>
<input type="checkbox"/>	15-Mar-2019	Cielo Di Houston	Inspection Overdue Winch: M4   Loc: Port Aft Main Dk	No	<a href="#">Details</a>   <a href="#">Ack</a>   <a href="#">Comment</a>
<input type="checkbox"/>	12-Mar-2019	Cielo Di Houston	Inspection Overdue Winch: M9   Loc: Stbd F'cstle Dk	Yes	<a href="#">Details</a>   <a href="#">Comment(2)</a> <b>Ack. By Capt. A. Bhalla</b>
<input type="checkbox"/>	08-Mar-2019	Cielo Di Rotterdam	Mooring Rope replacement required Winch: M11  Loc: Stbd F'cstle Dk	Yes	<a href="#">Details</a>   <a href="#">Comment(4)</a> <b>Ack. By Capt. A. Mittal</b>
<input type="checkbox"/>	01-Mar-2019	Cielo Di Rotterdam	External Abrasion exceeded limit Winch: M2   Loc: Stbd Aft Main Dk	Yes	<a href="#">Details</a>   <a href="#">Ack</a>   <a href="#">Comment</a>
<input type="checkbox"/>	25-Feb-2019	Cielo Di Houston	Inspection Overdue Winch: M3   Loc: Port Aft Main Dk	No	<a href="#">Details</a>   <a href="#">Ack</a>   <a href="#">Comment</a>
<input type="checkbox"/>	21-Feb-2019	Cielo Di Houston	Inspection Overdue Winch: M10   Loc: Stbd F'cstle Dk	Yes	<a href="#">Details</a>   <a href="#">Comment(2)</a> <b>Ack. By Capt. A. Bhalla</b>

First

Prev

1

2

3

4

5

Next

Last

Dashboard ▼

Notifications ▼

Mooring Equipment  
Records ▶

Analysis ▼

MSMP ▼

LMP ▼

Training Content ▼

User Manager ▼

Settings ▼

Fleet Name ▼

Fleet Type ▼

Vessel Name ▼

Search

Vessel Name

Mooring Winch

Mooring Ropes

Planned Maintenance

Cielo Di Rotterdam

[Details](#)[Details](#)[Criteria](#)

Cielo Di Houston

[Details](#)[Details](#)[Criteria](#)

On Clicking Details or Criteria, the system will display complete details for each Vessel of the Fleet, as inserted by the Vessel, and updated on exchange of data

First

Prev

1

2

3

4

5

Next

Last





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Dashboard

Notifications

Mooring Equipment Records

Analysis

Ropes Abrasion Analysis

Trend -Loose Equip. Discard

MSMP

LMP

Training Content

User Manager

Settings

Analysis - Ropes Abrasion

126

29

Welcome: Admin!

Help

Logout

EXPORT

Fleet NameFleet TypeVessel NameTradeAge RangeRunning Hours

01-Jan-201831-Dec-2018

Search

Showing Results from 01-Jan-2018 to 31-Dec-2018

StatisticalGraphical

Duration	External Abrasion 1	Internal Abrasion 1	External Abrasion 2	Internal Abrasion 2	External Abrasion 3	Internal Abrasion 3	External Abrasion 4	Internal Abrasion 4	External Abrasion 5	Internal Abrasion 5	External Abrasion 6	Internal Abrasion 6	External Abrasion 7	Internal Abrasion 7
Jan	320	150	256	120	166	78	493	231	271	127	116	55	79	37
Feb	333	163	266	130	173	85	513	251	282	138	121	59	82	40
Mar	350	188	280	150	182	98	539	290	296	159	127	68	87	47
Apr	410	201	328	161	213	105	631	310	347	170	149	73	101	50
Jun	444	260	355	208	231	135	684	400	376	220	162	95	110	64
Jul	493	299	394	239	256	155	759	460	418	253	179	109	122	74
Aug	654	401	523	321	340	209	1007	618	554	340	238	146	162	99
Sep	504	342	403	274	262	178	776	527	427	290	183	124	125	85
Oct	501	301	401	241	261	157	772	464	424	255	182	110	124	75
Nov	401	252	321	202	209	131	618	388	340	213	146	92	99	62
Dec	458	287	366	230	238	149	705	442	388	243	167	104	113	71



- Dashboard
- Notifications
- Mooring Equipment Records
- Analysis
  - Ropes Abrasion Analysis
  - Trend -Loose Equip. Discard
- MSMP
- LMP
- Training Content
- User Manager
- Settings

EXPORT

Fleet Name

Fleet Type

Vessel Name

Trade

Age Range

Running Hours

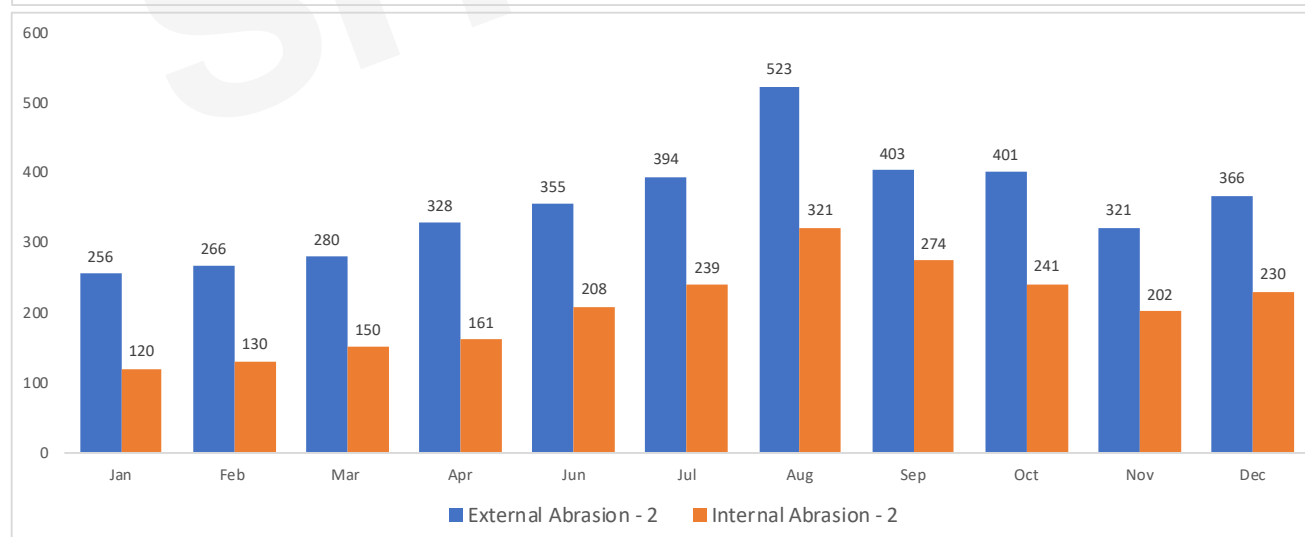
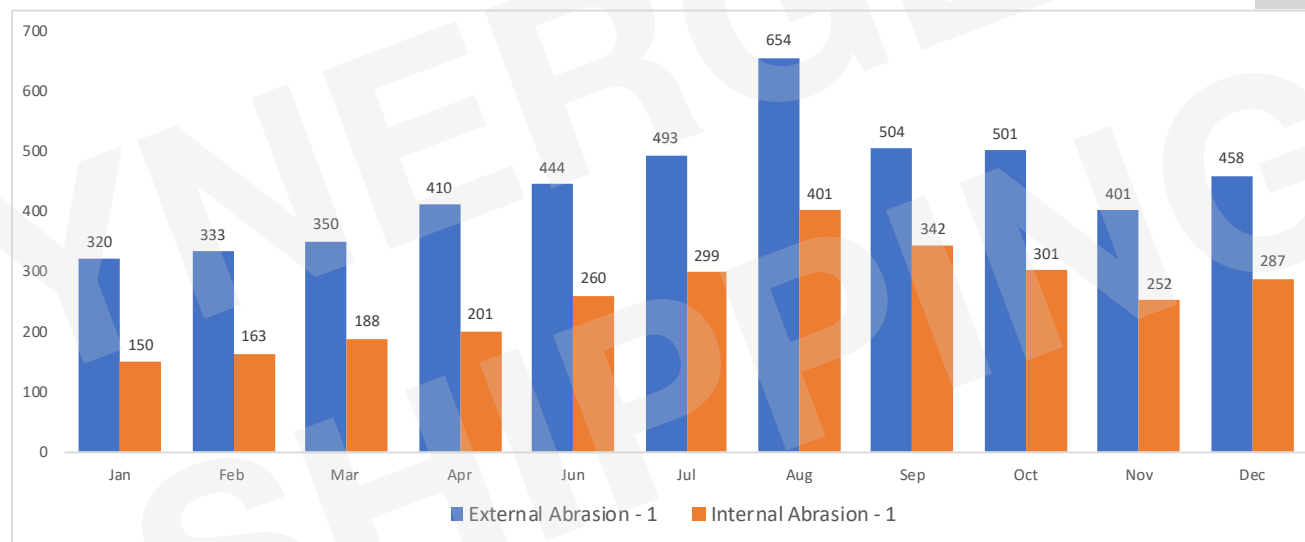
01-Jan-2018

31-Dec-2018

Search

Showing Results from 01-Jan-2018 to 31-Dec-2018

Statistical Graphical



Scroll down to Check more Graphs

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## Analysis - Trend Loose Equip. Discard

126

29

Welcome: Admin!

Help

Logout

Dashboard ▼

Notifications ▼

Mooring Equipment  
Records ▶

## Analysis

Ropes Abrasion Analysis ▼

Trend -Loose Equip. Discard ▶

MSMP ▼

LMP ▼

Training Content ▼

User Manager ▼

Settings ▼

EXPORT ↓

Fleet Name ▼

Fleet Type ▼

Vessel Name ▼

Trade ▼

Age Range ▼

Running Hours ▼

01-Jan-2018 ▼

31-Dec-2018 ▼

Search

Showing Results from 01-Jan-2018 to 31-Dec-2018

Statistical

Graphical

Duration	No. Of Ropes Discarded
Jan	55
Feb	59
Mar	68
Apr	73
Jun	95
Jul	109
Aug	146
Sep	124
Oct	110
Nov	92
Dec	104

## digimoor X7

### Analysis - Trend Loose Equip. Discard

126

29

Welcome: Admin!

Help

Logout

Dashboard



Notifications



Mooring Equipment  
Records



Analysis

Ropes Abrasion Analysis



Trend -Loose Equip. Discard



MSMP



LMP



Training Content



User Manager



Settings



EXPORT



Fleet Name



Fleet Type



Vessel Name



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Age Range



Running Hours



01-Jan-2018



31-Dec-2018

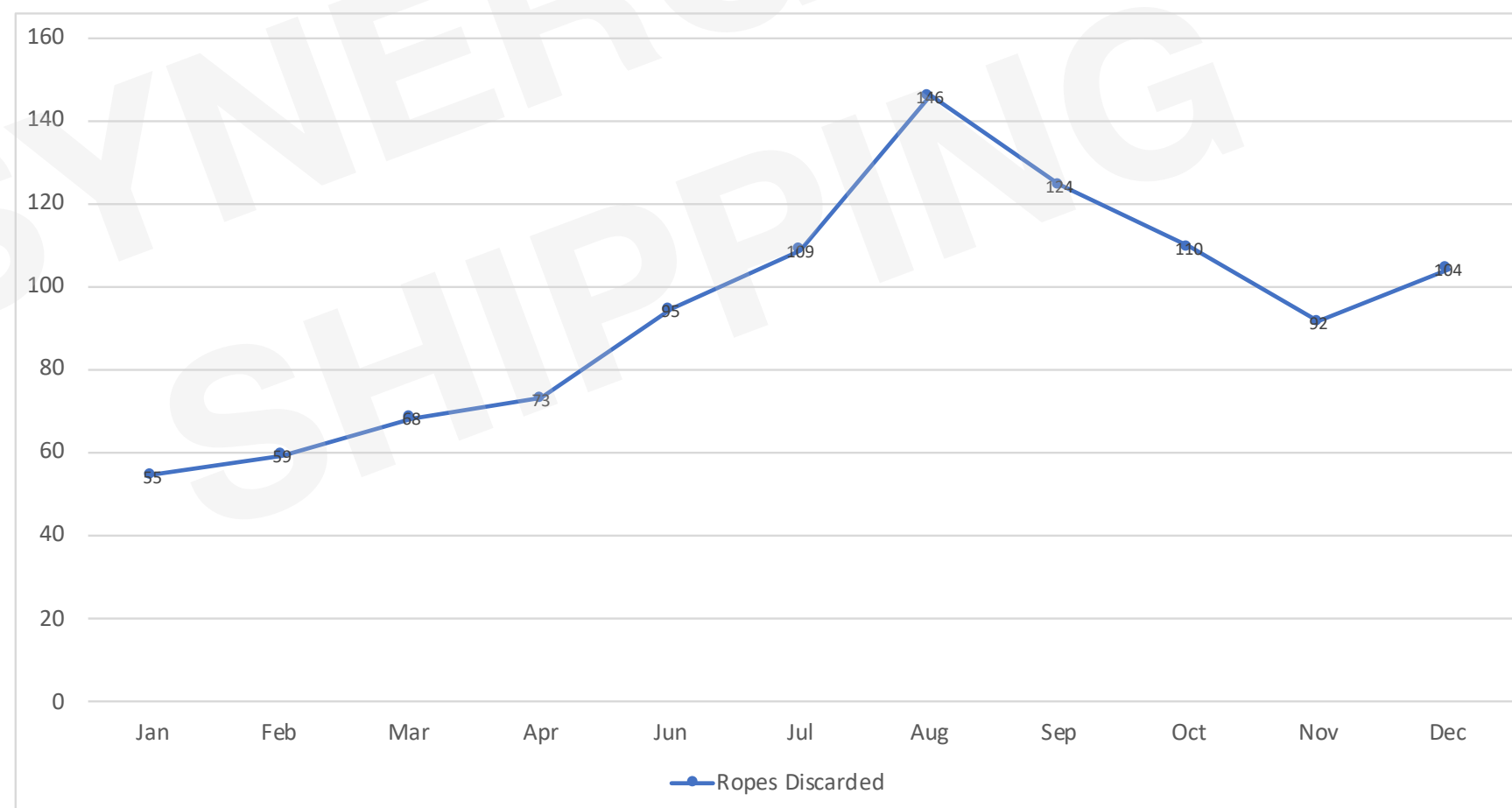


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Showing Results from 01-Jan-2018 to 31-Dec-2018

Statistical

Graphical



digiMoor X7		MSMP		<div>126</div> <div>29</div> <div>Welcome: Admin!</div> <div>Help</div> <div>Logout</div>	
Dashboard	▼	Introduction		<div>MOORING OPERATIONS AND EQUIPMENT MANAGEMENT PLAN</div> <div>INTRODUCTION</div> <div>Date: Nov 20 2018</div> <div>Ver: 1.01</div> <div>Page 1 of 5</div>	
Notifications	▼	1.0 Purpose & Scope		<div>1.PURPOSE AND SCOPE</div> <div>EDIT</div> <div> <div>OFFICE VERSION HAS FACILITY TO EDIT TEXT OF MANUALS</div> </div>	
Mooring Equipment Records	▼	2.0 Rules of Mooring		<div>d'Amico Società di Navigazione recognizing the potentially serious incidents during the mooring operation. Mooring is a difficult, complex and dangerous job performed foremost by the deck crew as the ship reaches the berth. It is a difficult, complex and dangerous job performed by the deck crew as the ship reaches the berth. It is a difficult, complex and dangerous job performed by the deck crew as the ship reaches the berth.</div>	
Analysis	▼	3.0 10 Thumb Rules of Mooring		<div>but sometimes an accident occurs and this cases have been reported in shipping industry mooring operations and many of them have occurred in some cases.</div>	
MSMP	▶	4.0 Pre-Mooring Meeting		<div>Accidents come unexpectedly, but the worst accidents are those which happen when the crew is not prepared, believing the operation to be going smoothly and efficiently. You think you are in control, doing what you always do while mooring and suddenly you are in the middle of a situation which you never thought or anticipated for with a major crisis to be managed immediately and afterwards.</div>	
LMP	▼	Ship Specific		<div>The purpose of Mooring Operations and Equipment Management is to ensure the mooring system is Inspected, maintained and operated in accordance with design and assessed risk for the safety of crew.</div>	
Training Content	▼	Revision		<div>The crew handling the mooring on-board are properly trained &amp; familiarised. The mooring equipment are adequately designed &amp; tested for safe working loads and all the related records are maintained on-board. The mooring areas are always maintained in safe condition, anti-slip paint is applied, snap back areas are highlighted and mooring operations are always conducted in planned, controlled &amp; most safely.</div>	
User Manager	▼	A- General Ship Particulars		<div>The mooring operations The plan is to be used in conjunction with the set of company</div>	
Settings	▼	B - Mooring Equipment Design Philosophy			
		C - Detailed List of Mooring Equipment			
		D - Inspection, Maintenance & Retirement Strategies			

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MSMP

126

29

Welcome: Admin!

Help

Logout

Dashboard

Notifications

Mooring Equipment Records

Analysis

MSMP

LMP

Training Content

User Manager

Settings

Introduction

1.0 Purpose & Scope

2.0 Rules of Mooring

3.0 10 Thumb Rules of Mooring

4.0 Pre-Mooring Meeting

Ship Specific Revision

A- General Ship Particulars

B - Mooring Equipment Design Philosophy

C - Detailed Mooring Equipment

D - Inspection, Maintenance and Retirement

EDITING MODE

FACILITY TO FORMAT TEXT IN THE MANUALS

ANY EDITING DONE WILL SAVE IN ‘RECORD OF REVISIONS’

SAVECANCEL

←→StylesFormatBBI~~S~~IxListBulletedTableCaptionImageLinkMediaGridEmojiFullscreenABC

1.PURPOSE

d'Amico So potentially serious impact of marine incidents d g is the operation performed first and foremost b e port – but it is also one of the most difficult, co on board. Mostly things turn out safely, but sometimes an accident occurs and this usually has severe consequences. Several cases have been reported in shipping industry in the past about accidents during mooring operations and many of them have led to severe injury or death of seamen in some cases.

The mooring operations The plan is to be used in conjunction with the set of company Safety Procedures placed on board, and with reference to the following industry publications provided on Board:

INTERNATIONAL CHAMBER OF SHIPPING / OIL COMPANIES INTERNATIONAL MARINE FORUM

1.Mooring Equipment Guideline



Dashboard ▼

Notifications ▼

Mooring Equipment  
Records ▼

Analysis ▼

MSMP ▶

LMP ▼

Training Content ▼

User Manager ▼

Settings ▼

## Introduction

1.0 Purpose &amp; Scope

2.0 Rules of Mooring

3.0 10 Thumb Rules of Mooring

4.0 Pre-Mooring Meeting

Ship Specific  
RevisionA- General Ship  
ParticularsB - Mooring Equipment  
Design PhilosophyC - Detailed List of  
Mooring EquipmentD - Inspection,  
Maintenance &  
Retirement Strategies

## Revision Status

	Revision Title	Revision Number	View Details
1	Additional Details of Ship Particulars - Owners & Charterers	1.0.2	
2	Corrected spellings	1.0.1	



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LMP

126

29

Welcome: Admin!

Help

Logout

## Dashboard

## Introduction

## Notifications

## A - Mooring Winch Details

## Mooring Equipment Records

## B - Mooring Rope Details

## Analysis

## C - Planned Maintenance Criteria

MSMP

## Revision Status

## Admin Settings

## Training Content

## User Manager

## Settings

## MOORING OPERATIONS AND EQUIPMENT MANAGEMENT PLAN

### Mooring Winch Details

[illegible]

**ALL LMP RELATED SHIPBOARD DETAILS WILL BE VIEWED IN THE ONLINE VERSION**

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Dashboard

Notifications

Mooring Equipment Records

Analysis

MSMP

LMP

Training Content

User Manager

Settings

Training Content

Training Material

Video: Inspection & Retirement Guidelines

Video: Effect of Twist on Braided Rope

Video: Elogation Causes & Effects

Graphic: External & Internal Abrasion Rating

126

29

Welcome: Admin!

Help

Logout

Video : Inspection and Retirement Guidelines

SYNERGETIC SHIPPING

HIGH-PERFORMANCE SYNTHETIC ROPE

INSPECTION AND RETIREMENT GUIDELINES

0:24

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Scroll down to Check more Training material

▼

**digiMoor X7****USER MANAGER**

126

29

Welcome: Admin!

Help

Logout

Dashboard ▼

Notifications ▼

Mooring Equipment  
Records ▼

Analysis ▼

MSMP ▼

LMP ▼

Training Content ▼

User Manager ▶

Settings ▼

**HELP -**

- i) Comprehensive user Manual on click of this link

**USER MANAGER -**

- i) Create / Edit / Delete Users
- ii) Give access permission controls to users basis Fleet Type, Fleet Name and Ship's Name

**SETTINGS -**

- i) All Administrative Settings will appear here
- ii) Data Import Log will appear here